

CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET –KIT  
April 2012

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### 1. PRODUCT IDENTIFICATION

Product Name: SignalKine™ Sandwich ELISA Kit  
Product catalog #: 7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330  
Product Use: **This product is intended for Research Use Only (RUO).  
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**

Manufacturer/Supplier: Cell Signaling Technology  
3 Trask Lane  
Danvers, MA 01923  
USA  
978-867-2300 TEL  
978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

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### 3. HAZARDS IDENTIFICATION

- ✓ ELISA Wash Buffer (CST#9801)
- ✓ TMB (CST#7004)
- ✓ STOP Solution (CST#7002)
- ✓ Assay Diluent 1
- ✓ Serum Diluent 1
- ✓ Detection Antibody Diluent
- ✓ HRP-linked Streptavidin (lyophilized) 100X
- ✓ HRP Diluent

Based on percentages of hazardous ingredients in all other kit components in this product, this product is not classified as “dangerous” under EU Directives 67/548/EEC or hazardous under US OSHA Hazard Communications regulations 29 CFR 1910.1200.

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### 3. COMPOSITION/INFORMATION

Preparation Name: SignalKine™ Sandwich ELISA Kit  
CAS#: N/A

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### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.

**Skin Exposure:** Wash skin with soap and water. If irritation develops or persists, get medical attention.

**Eye Exposure:** Immediately flush eyes water for at least 15 minutes. Get medical attention.

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### 5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable

**Autoignition Temperature:** Not applicable

**Explosion:** Not applicable

**Fire extinguishing media:** water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**Specific Hazard:** none

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### 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment. Absorb liquid with an absorbent material. Transfer contaminated absorbent to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

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**7. HANDLING AND STORAGE**

Storage: Store kit in tightly closed container at 4C.

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**8-13.** Refer to individual MSDS for kit components for Sections 8-13 information: Exposure Controls/Personal Protection, Physical and Chemical Properties, Stability and Reactivity, Toxicological Information, Ecological information, Disposal Considerations.

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**14. TRANSPORT INFORMATION****D.O.T.**

**Proper Shipping Name:** None  
This substance is considered non-hazardous for transport.

**IATA**

**Proper Shipping Name:** None  
This substance is considered non-hazardous for air transport.

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**15. REGULATORY INFORMATION:**

EU: Not classified  
OSHA: Not listed  
Canadian DSL: Not Listed  
SARA 302, 313 Not Listed.  
SARA 311/312: Not Listed.  
Massachusetts Right To Know: Not Listed.  
Pennsylvania Right To Know: Not Listed.  
New Jersey Right To Know: Not Listed.  
California Prop. 65: Not Listed

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**16. OTHER INFORMATION**

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

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Product Name: Assay Diluent 1  
Product catalog #: 7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330 Kit component  
Substance/Preparation: Preparation  
Identified Use: **This product is for *in vivo* laboratory research use only (RUO).  
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**

Supplier : Cell Signaling Technology  
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## 2. COMPOSITION/INFORMATION on hazardous ingredients

According to 29CFR 1910.1200(d), mixtures with hazardous ingredients at less than 1% and carcinogens at less than 0.1% are considered non-hazardous.

Ingredient:	CAS#	% Volume
Tween 20	9005-64-5	0.5%
Non hazardous Phosphate Buffered Saline, 5X	N/A	99.5%

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## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**OSHA:** Non-hazardous

**EU:** This product is not classified according to Directive 1999/45/EC.

**Appearance:** Colorless liquid

**Possible routes of exposure:**

**Eye/Skin Contact:** May cause irritation to eyes, skin.

**Ingestion:** May cause gastrointestinal tract irritation.

**Inhalation:** May cause respiratory tract irritation.

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## 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Get medical attention or Call Poison Control Center for most current information.

**Skin Exposure:** In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

**Eye Exposure:** In case of contact with eyes, immediately flush eyes water for at least 15 minutes. Get medical attention.

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## 5. FIRE FIGHTING MEASURES

**Flash Point:** Not Flammable.

**Autoignition Temperature:** Not considered to be a fire hazard.

**Explosion:** Not applicable.

**Fire extinguishing media:** water spray, dry chemical, alcohol foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

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## 6. ACCIDENTAL RELEASE MEASURES :

Wear appropriate personal protective equipment. Avoid contact with spilled material. Avoid breathing vapor or mist. Provide adequate ventilation.

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## 7. HANDLING AND STORAGE

Store in tightly closed container at 4°C. Keep and use in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation System:** a system of local and/or general exhaust is recommended.

**Skin Protection:** wear compatible chemical resistant gloves and protective clothing, such as a lab coat.

**Eye protection:** wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	no data available
pH:	no data available
Melting Point:	no data available
Boiling Point	no data available
Flash Point	Not considered to be a fire hazard.
Explosive properties	Not considered to be an explosion hazard.

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## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Hazardous Polymerization:	no data available
Hazardous Decomposition:	no data available
Conditions to avoid:	no data available

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	no data available
<b>Chronic Toxicity</b>	no data available

**Routes of Exposure:**

**Skin Exposure:** May be harmful if absorbed through skin.

**Eye Exposure:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

No data available

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## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, local environmental regulations.

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## 14. TRANSPORT INFORMATION

**D.O.T.**

**Proper Shipping Name:** None  
This substance is considered non-hazardous for transport.

**IATA**

**Proper Shipping Name:** None  
This substance is considered non-hazardous for air transport.

## 15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.

EU: Not classified as dangerous.

Canadian DSL: Not Listed

SARA 302, 313 Not Listed.

SARA 311/312: Not Listed.

Massachusetts Right To Know: Not Listed.

Pennsylvania Right To Know: Not Listed.

New Jersey Right To Know: Not Listed.

California Prop. 65: Not Listed

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## 16. OTHER INFORMATION

This compound is sold only for *in vitro* laboratory research use only. It is not for use in humans. It is not intended for use as diagnostic or clinical therapeutic. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT IDENTIFICATION

Product Name: ELISA Wash Buffer (20X)  
Product catalog #: #7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330 Kit component  
CAS# N/A  
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.  
Manufacturer/Supplier: Cell Signaling Technology  
3 Trask Lane  
Danvers, MA 01923  
USA  
978-867-2300 TEL  
978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

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## 2. HAZARDS IDENTIFICATION

### OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

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## 3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#.....
.....	.....	.....
Tween 20	1%	9005-64-5
Kathon	0.5%	55965-84-9
Non-hazardous 20X phosphate buffered saline	98.5%	none

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## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.

**Skin Exposure:** Wash skin with soap and water.

**Eye Exposure:** Flush eyes water as a precaution.

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## 5. FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Fire extinguishing media:** water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**Specific Hazard:** none known

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## 6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

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## 7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** showers, eyewash, ventilation systems.

**Hygiene Measures:** wear suitable gloves and eye/face protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	no data available.
<b>Conditions/materials to avoid:</b>	no data available
<b>Hazardous Decomposition:</b>	no data available
<b>Hazardous polymerization:</b>	no data available.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	no data available
<b>Chronic Toxicity</b>	no data available

### Routes of Exposure:

**Skin Exposure:** May be harmful if absorbed through skin.

**Eye Exposure:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

No data available

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## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

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## 14. TRANSPORT INFORMATION

### D.O.T.

**Proper Shipping Name:** None  
This substance is considered non-hazardous for transport.

### IATA

**Proper Shipping Name:** None  
This substance is considered non-hazardous for air transport.

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## 15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.  
EU: Not classified as dangerous.  
Canadian DSL: Not Listed  
SARA 302, 313 Not Listed.  
SARA 311/312: Not Listed.  
Massachusetts Right To Know: Not Listed.  
Pennsylvania Right To Know: Not Listed.  
New Jersey Right To Know: Not Listed.  
California Prop. 65: Not Listed

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## **16. OTHER INFORMATION**

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.



CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT IDENTIFICATION

Product Name: Assay Diluent 1  
Product catalog #: #7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330 Kit component  
CAS#: N/A  
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.  
Manufacturer/Supplier: Cell Signaling Technology  
3 Trask Lane  
Danvers, MA 01923  
USA  
978-867-2300 TEL  
978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

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## 2. HAZARDS IDENTIFICATION

### OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

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## 3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....	.....	.....
Fetal Bovine Serum	99.95%	9014-81-7
Sodium azide	0.05%	26628-22-8

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## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.

**Skin Exposure:** Wash skin with soap and water.

**Eye Exposure:** Flush eyes water as a precaution.

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## 5. FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Fire extinguishing media:** water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**Specific Hazard:** none known

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## 6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

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## 7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** showers, eyewash, ventilation systems.  
**Hygiene Measures:** wear suitable gloves and eye/face protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	data not available
pH :	7.2-7.4
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	no data available.
<b>Conditions/materials to avoid:</b>	no data available
<b>Hazardous Decomposition:</b>	no data available
<b>Hazardous polymerization:</b>	no data available.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	no data available
<b>Chronic Toxicity</b>	no data available

### Routes of Exposure:

**Skin Exposure:** May be harmful if absorbed through skin.

**Eye Exposure:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

No data available

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## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

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## 14. TRANSPORT INFORMATION

### D.O.T.

<b>Proper Shipping Name:</b>	None
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This substance is considered non-hazardous for transport.

### IATA

<b>Proper Shipping Name:</b>	None
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This substance is considered non-hazardous for air transport.

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## 15. REGULATORY INFORMATION

OSHA: No known hazards

EU: not classified.  
Canadian DSL: Not Listed  
SARA 302, 313 Not Listed.  
SARA 311/312: Not Listed.  
Massachusetts Right To Know: Not Listed.  
Pennsylvania Right To Know: Not Listed.  
New Jersey Right To Know: Not Listed.  
California Prop. 65: Not Listed

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## **16. OTHER INFORMATION**

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CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET

### 1. PRODUCT IDENTIFICATION

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Product Name: Serum Diluent 1  
Product catalog #: 7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330 kit component  
CAS#: N/A  
Product Use: **This product is intended for Research Use Only (RUO).  
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**  
Manufacturer/Supplier: Cell Signaling Technology  
3 Trask Lane  
Danvers, MA 01923  
USA  
978-867-2300 TEL  
978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

### 2. HAZARDS IDENTIFICATION

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**OSHA regulatory status:**

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

**EU regulatory Status:**

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

### 3. COMPOSITION/INFORMATION

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Ingredient	Percent	CAS#
.....	.....	.....
Fetal Bovine Serum	99.95%	9014-81-7
Sodium azide	0.05%	26628-22-8

### 4. FIRST AID MEASURES

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**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.

**Skin Exposure:** Wash skin with soap and water.

**Eye Exposure:** Flush eyes water as a precaution.

### 5. FIRE FIGHTING MEASURES

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**Flammability:** Not flammable.

**Fire extinguishing media:** water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**Specific Hazard:** none known

### 6. ACCIDENTAL RELEASE MEASURES

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Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

### 7. HANDLING AND STORAGE

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Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** showers, eyewash, ventilation systems.

**Hygiene Measures:** wear suitable gloves and eye/face protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless liquid
Odor:	data not available
pH :	7.2-7.4
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	no data available.
<b>Conditions/materials to avoid:</b>	no data available
<b>Hazardous Decomposition:</b>	no data available
<b>Hazardous polymerization:</b>	no data available.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	no data available
<b>Chronic Toxicity</b>	no data available

### Routes of Exposure:

**Skin Exposure:** May be harmful if absorbed through skin.

**Eye Exposure:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

No data available

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## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

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## 14. TRANSPORT INFORMATION

### D.O.T.

**Proper Shipping Name:** None  
This substance is considered non-hazardous for transport.

### IATA

**Proper Shipping Name:** None  
This substance is considered non-hazardous for air transport.

---

## 15. REGULATORY INFORMATION

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OSHA: No known hazards  
EU: not classified.  
Canadian DSL: Not Listed  
SARA 302, 313 Not Listed.  
SARA 311/312: Not Listed.  
Massachusetts Right To Know: Not Listed.  
Pennsylvania Right To Know: Not Listed.  
New Jersey Right To Know: Not Listed.  
California Prop. 65: Not Listed

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## **16. OTHER INFORMATION**

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CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET

---

## 1. PRODUCT IDENTIFICATION

Product Name: Detection Antibody Diluent  
Product catalog #: 7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330 kit component  
CAS#: N/A  
Product Type: Preparation  
Product Use: **This product is intended for Research Use Only (RUO).  
It is not intended for clinical diagnostic or therapeutic use in humans or animals.**  
Manufacturer/Supplier: Cell Signaling Technology  
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978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

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## 2. HAZARDS IDENTIFICATION

### OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

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## 3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....	.....	.....
Bovine Serum Albumin	2%	9048-46-8
Fetal Bovine Serum	25%	N/A
Tween 20	0.1%	9005-64-5
Kathon	0.05%	55965-84-9

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## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.

**Skin Exposure:** Wash skin with soap and water.

**Eye Exposure:** Flush eyes water as a precaution.

---

## 5. FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Fire extinguishing media:** water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**Specific Hazard:** none known

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## 6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

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## 7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** showers, eyewash, ventilation systems.

**Hygiene Measures:** wear suitable gloves and eye/face protection.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	green liquid
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

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#### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	no data available.
<b>Conditions/materials to avoid:</b>	no data available
<b>Hazardous Decomposition:</b>	no data available
<b>Hazardous polymerization:</b>	no data available.

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#### 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	no data available
<b>Chronic Toxicity</b>	no data available

**Routes of Exposure:**

**Skin Exposure:** May be harmful if absorbed through skin.

**Eye Exposure:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

#### 12. ECOLOGICAL INFORMATION

No data available

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#### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

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#### 14. TRANSPORT INFORMATION

**D.O.T.**

<b>Proper Shipping Name:</b>	None
------------------------------	------

This substance is considered non-hazardous for transport.

**IATA**

<b>Proper Shipping Name:</b>	None
------------------------------	------

This substance is considered non-hazardous for air transport.

---



## **15. REGULATORY INFORMATION**

OSHA: Not classified as hazardous.

EU: Not classified as dangerous.

Canadian DSL: Not Listed

SARA 302, 313 Not Listed.

SARA 311/312: Not Listed.

Massachusetts Right To Know: Not Listed.

Pennsylvania Right To Know: Not Listed.

New Jersey Right To Know: Not Listed.

California Prop. 65: Not Listed

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## **16. OTHER INFORMATION**

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT IDENTIFICATION

Product Name: HRP-Linked Streptavidin (lyophilized) 100X  
Product catalog #: #7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330 Kit component  
CAS#: N/A  
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.  
Manufacturer/Supplier: Cell Signaling Technology  
3 Trask Lane  
Danvers, MA 01923  
USA  
978-867-2300 TEL  
978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

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## 2. HAZARDS IDENTIFICATION

### OSHA regulatory status:

This material is considered non-hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

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## 3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....	.....	.....
Trehalose	5%	6138-23-4
Non-hazardous Phosphate Buffered Saline	95%	N/A

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## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.

**Skin Exposure:** Wash skin with soap and water.

**Eye Exposure:** Flush eyes water as a precaution.

---

## 5. FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Fire extinguishing media:** water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**Specific Hazard:** none known

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## 6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

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## 7. HANDLING AND STORAGE

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed. Recommended storage temperature 4°C.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** showers, eyewash, ventilation systems.  
**Hygiene Measures:** wear suitable gloves and eye/face protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	lyophilized powder
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	no data available.
<b>Conditions/materials to avoid:</b>	no data available
<b>Hazardous Decomposition:</b>	no data available
<b>Hazardous polymerization:</b>	no data available.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	no data available
<b>Chronic Toxicity</b>	no data available

### Routes of Exposure:

**Skin Exposure:** May be harmful if absorbed through skin.

**Eye Exposure:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

No data available

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## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

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## 14. TRANSPORT INFORMATION

### D.O.T.

<b>Proper Shipping Name:</b>	None
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This substance is considered non-hazardous for transport.

### IATA

<b>Proper Shipping Name:</b>	None
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This substance is considered non-hazardous for air transport.

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## 15. REGULATORY INFORMATION

OSHA: Not classified as hazardous.

EU: Not classified as dangerous.  
Canadian DSL: Not Listed  
SARA 302, 313 Not Listed.  
SARA 311/312: Not Listed.  
Massachusetts Right To Know: Not Listed.  
Pennsylvania Right To Know: Not Listed.  
New Jersey Right To Know: Not Listed.  
California Prop. 65: Not Listed

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CELL SIGNALING TECHNOLOGY  
MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT IDENTIFICATION

Product Name: HRP Diluent  
Product catalog #: #7289, 7921, 8628, 8668, 8629, 8669, 8667, 7898, 11928, 12031, 12129, 12217, 12330 Kit component  
CAS#: N/A  
Product Type: Preparation  
Product Use: **This product is intended for Research Use Only (RUO).** It is not intended for clinical diagnostic or therapeutic use in humans or animals.  
Manufacturer/Supplier: Cell Signaling Technology  
3 Trask Lane  
Danvers, MA 01923  
USA  
978-867-2300 TEL  
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## 2. HAZARDS IDENTIFICATION

### OSHA regulatory status:

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### EU regulatory Status:

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous mixture according to EC Directives 67/548/EEC or 1999/45/EC.

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## 3. COMPOSITION/INFORMATION

Ingredient	Percent	CAS#
.....	.....	.....
Bovine Serum Albumin	2%	9048-46-8
Fetal Bovine Serum	25%	N/A
Tween 20	0.1%	9005-64-5
Kathon	0.05%	55965-84-9

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## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.

**Skin Exposure:** Wash skin with soap and water.

**Eye Exposure:** Flush eyes water as a precaution.

---

## 5. FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Fire extinguishing media:** water spray, dry chemical, foam, or carbon dioxide.

**Firefighting:** wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

**Specific Hazard:** none known

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## 6. ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment. Absorb liquid with an absorbent material. Wash spill site after material has been picked up for disposal.

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## 7. HANDLING AND STORAGE

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Keep container tightly closed. Recommended storage temperature 4°C.

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**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** showers, eyewash, ventilation systems.

**Hygiene Measures:** wear suitable gloves and eye/face protection.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	red liquid
Odor:	data not available
pH :	data not available
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility:	water soluble

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#### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	no data available.
<b>Conditions/materials to avoid:</b>	no data available
<b>Hazardous Decomposition:</b>	no data available
<b>Hazardous polymerization:</b>	no data available.

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#### 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	no data available
<b>Chronic Toxicity</b>	no data available

##### Routes of Exposure:

**Skin Exposure:** May be harmful if absorbed through skin.

**Eye Exposure:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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#### 12. ECOLOGICAL INFORMATION

No data available

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#### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

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#### 14. TRANSPORT INFORMATION

##### D.O.T.

<b>Proper Shipping Name:</b>	None
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This substance is considered non-hazardous for transport.

##### IATA

<b>Proper Shipping Name:</b>	None
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