

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **Active Ras Detection Kit**
Product Number **8821**
Identified Uses For Research Use Only (RUO). Not intended for use in humans or animals.
 Not intended for therapeutic or diagnostic procedures.

Manufacturer/Supplier Cell Signaling Technology, Inc.
 3 Trask Lane
 Danvers, MA 01923 USA

Phone #: 1-978-867-2300
Emergency Tel# 1-978-578-6737

2. HAZARDS IDENTIFICATION
Emergency Overview

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Warning!

Harmful if inhaled or absorbed through skin. Causes respiratory tract, eye and skin irritation. May cause allergic skin reaction. May be harmful if swallowed. Contains material that can cause target organ damage.

Toxic by inhalation and in contact with skin. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

Physical State

Kit box contains vials of liquids and solids.

3. COMPOSITION/INFORMATION ON INGREDIENTS
Hazardous Ingredients

Please see the individual material safety data sheets which can be found on the CST website www.cellsignal.com/support/msds.html for hazard communication information specific to individual kit components contained in this product.

Component SKU	Kit Component Name
8784S	GST-Raf1-RBD
8832S	Anti-Ras Mouse Antibody (Non-hazardous)
11522S	GDP (100X) (Non hazardous)
11521S	GTP γ S (100X)
11523S	Glutathione Resin
11525S	2X SDS Sample Buffer
11524S	Lysis/Binding/Wash Buffer

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water. Get medical attention.
Skin Contact Rinse immediately with soap and plenty of water. Get medical attention.
Inhalation Move to fresh air. Get medical attention.
Ingestion Call Poison Control Center immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water.
 Get medical attention.

Notes to physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point See Section 9. Physical and Chemical Properties
Suitable Extinguishing Media Use dry chemical
Special exposure hazards No data available
Special protection for fire fighters Wear appropriate self-contained breathing apparatus and protective unit
Other information No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Do not touch or walk through spilled material. Wear personal protective equipment
Environmental precautions Do not let product enter drains.
Clean up methods Soak up with absorbent material. Keep in suitable closed containers for disposal.
Other information See sections 12 and 13 for additional information.

7. HANDLING AND STORAGE

Safe handling advice	Avoid contact with eyes and skin. Ensure adequate ventilation.
Storage condition	Keep container tightly closed in a cool dry location.
Incompatibilities	No data available
Specific end uses	No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
Exposure Controls

Apply technical measures to comply with the occupational exposure limits.

Engineering Controls

Emergency eyewash and safety shower. Mechanical exhaust required.

Hygiene Measures

Do not eat, drink or smoke when handling product. Wash hands thoroughly after handling product. Wash contaminated clothing before reuse.

Personal Protective Equipment

Respiratory Protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Eye Protection:	Safety glasses with side shields
Skin and body protection:	Wear suitable protective clothing, protective shoes or boots.
Hand protection:	Compatible chemical resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and chemical properties

Physical State	small vials of liquids and solids
Appearance	no data available
Odor	no data available
pH	no data available
Water Solubility	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Evaporation rate	no data available
Flammability	no data available
Flash point	no data available
Autoignition temperature	no data available
Flammability limits in air	no data available
Explosive properties	no data available
VOC content	no data available
Decomposition temperature	no data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions/Materials to avoid	No data available
Hazardous decomposition products	No data available

11. TOXICOLOGICAL INFORMATION
Acute Toxicity

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

Potential Health Effects
Acute Toxicity

Eyes	May cause eye irritation.
Skin	Harmful in contact with skin. Causes mild skin irritation. May cause allergic skin reaction.
Inhalation	Harmful if inhaled. Toxic by inhalation. Irritating to respiratory system.
Ingestion	May be harmful if swallowed.

Chronic Effects

Carcinogenic effects	No known significant effects or critical hazards.
Mutagenic effects	No known significant effects or critical hazards.
Teratogenic effects	No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.
Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Target organ effects

Contains material that can cause damage to the following organs: kidneys, lungs, upper respiratory tract, skin, eyes, liver, gastrointestinal tract.

12. ECOLOGICAL INFORMATION
Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and degradability	Not available
Bioaccumulation	Not available
Mobility	Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

IATA	Not regulated as dangerous goods
DOT	Not regulated as dangerous goods
MEX	Not regulated as dangerous goods

15. REGULATORY INFORMATION

HCS Classification

Toxic material
Irritating material
Sensitizing material
Target organ effects

International Inventories

TSCA (8a) PAIR -

EINECS/ELINCS-

ENCS -

IECSC -

KECL -

PICCS -

AICS -

NZIoC -

U.S. Federal Regulations

SARA 302/304/311/312 hazardous chemicals: See individual kit component MSDS documents.

SARA 311/312 MSDS Distribution: See individual kit component MSDS documents.

U.S. State Regulations See individual kit component MSDS documents.

Canada See individual kit component MSDS documents.

16. OTHER INFORMATION

Revision date 2012-06-22

Revision Note ***Indicates updated section

Disclaimer

The information provided on this material safety data sheet is to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet