

1. Identification

A. Product identifier

Product name AsCpf1/Cas12a (Strain BV3L6) (E1U7C) Rabbit mAb (BSA and Azide Free)
Product Code(s) 33209

B. Relevant identified uses of the substance or mixture and uses advised against

Identified uses For research use only. Not for use in diagnostic procedures
Uses advised against No information available

C. Supplier's details

Manufacturer

Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
United States
TEL: +1 978 867 2300
FAX: +1 978 867 2400

For further information, please contact _____

Email address No information available

Emergency telephone number No information available
CHEMTREC 24 hours a day, 7 days a week, 365 days a year
+1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)
080 822 1374

2. Hazard(s) identification

A. Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

B. GHS Label elements, including precautionary statements

Signal Word
None

Hazard Statements
None

C. Other hazards which do not result in classification

Not applicable

3. Composition/information on ingredients

General Hazards Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

4. First-aid measures

- A. In case of eye contact** Rinse thoroughly with plenty of water, also under the eyelids.
- B. In case of skin contact** Wash skin with soap and water.
- C. In case of inhalation** Remove to fresh air.
- D. In case of ingestion** Clean mouth with water and drink afterwards plenty of water.
- E. Indication of immediate medical attention and special treatment needed, if necessary**

Note to physicians Treat symptomatically.

Symptoms No information available

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media No information available.

B. Specific hazards arising from the chemical No information available.

C. Special Protective Equipment for Firefighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information.

For emergency responders Use personal protection recommended in Section 8.

B. Environmental precautions See Section 12 for additional Ecological Information.

C. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations

7. Handling and storage

A. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin, eyes or clothing.

B. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

8. Exposure controls/personal protection

A. Control Parameters

Occupational exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

B. Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Environmental exposure controls No information available.

C. Personal Protective Equipment

Respiratory protection Use appropriate respiratory protection.

Eye protection Tight sealing safety goggles.

Hand protection Impervious gloves.

Body protection Wear suitable protective clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

- A. Appearance** Clear
Physical State Liquid
color Colorless
- B. Odor** No information available
- C. Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
D. pH	8.0	@ 20 °C

E. Melting point/freezing point	No information available	None known
F. Initial boiling point and boiling range	No information available	None known
G. Flash point	No information available	None known
H. Evaporation rate	No information available	None known
I. Flammability	No information available	None known
J. Upper/lower flammability or explosive limits		
Upper flammability limit	No information available.	No information available
Lower flammability limit	No information available.	No information available
K. Vapor pressure	No information available	None known
L. Solubility(ies)		
Solubility	No information available.	None known
Solubility in other solvents	No information available	None known
M. Relative vapor density	No information available	None known
N. Specific Gravity	No information available	None known
O. Partition coefficient: n-octanol/water	No information available	None known
P. Autoignition Point	No information available	None known
Q. Decomposition temperature	No information available	None known
R. Viscosity		
Viscosity	No information available	None known
Viscosity, dynamic	No information available	None known
S. Molecular Weight	No information available	
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
VOC content	No information available	
Liquid Density	No information available	

10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions	
Stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
B. Conditions to avoid	None known based on information supplied.
C. Incompatible materials	None known based on information supplied.
D. Hazardous Decomposition Products	None known based on information supplied.

11. Toxicological information

A. Information on the likely routes of exposure
Product Information

Inhalation	Specific test data for the substance or mixture is not available
Ingestion	Specific test data for the substance or mixture is not available
Eye contact	Specific test data for the substance or mixture is not available
Skin contact	Specific test data for the substance or mixture is not available
Symptoms	No information available

B. Health hazards information

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document

Skin corrosion/irritation	No information available.
Serious eye damage/irritation	No information available
Carcinogenicity	No information available
Germ cell mutagenicity	No information available
Reproductive toxicity	No information available.
Specific target organ toxicity (STOT) – single exposure	No information available.
Specific target organ toxicity (STOT) – repeated exposure	No information available.
Target Organ Effects	No information available.
Aspiration hazard	No information available.

12. Ecological information

- | | |
|---|---|
| A. Ecotoxicity | The environmental impact of this product has not been fully investigated. |
| B. Persistence and degradability | No information available. |
| C. Bioaccumulative potential | No information available. |
| D. Mobility in soil | No information available. |
| E. Other adverse effects | No information available. |
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This product does not contain any known or suspected endocrine disruptors

13. Disposal considerations

A. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

B. Disposal considerations

Contaminated packaging Do not reuse empty containers.

14. Transport information

- | | |
|---------------------------------|---------------|
| A. UN number | Not regulated |
| B. UN proper shipping name | Not regulated |
| C. Transport hazard class(es) | Not regulated |
| D. Packing group | Not regulated |
| E. Marine Pollutant | Not regulated |
| F. Special precautions for user | Not regulated |

15. Regulatory information

A. Industrial Safety and Health Law Not applicable

Harmful substances subject to control Not applicable

Harmful agents subject to work environment monitoring Not applicable

Harmful agents subject to workers requiring health examination Not applicable

B. Chemicals Control Act not applicable

Chemicals Control Act (CCA) - Accident Precaution Chemicals Not applicable

C. Safety Control of Dangerous Substances Act No information available

D. Wastes Management Dispose of waste in accordance with environmental legislation.

E. Other Regulations No information available

International inventories

TSCA 8(b) Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.

EINECS/ELINCS Contact supplier for inventory compliance status.

ENCS Contact supplier for inventory compliance status.

IECSC Contact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.

PICCS Contact supplier for inventory compliance status.

AICS Contact supplier for inventory compliance status.

TSCA - *United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL - *Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS - *European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances*

ENCS - *Japan Existing and New Chemical Substances*

IECSC - *China Inventory of Existing Chemical Substances*

KECL - *Korean Existing and Evaluated Chemical Substances*

PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

16. Other information

A. Information source and references

Prepared By No information available.

B. Issuing Date: 2023-02-15

C. Revision number and date

Version: 1

D. Other Ingredients

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Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG International Maritime Dangerous Goods (IMDG)

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA:	Time weighted average	STEL:	Short term exposure limit
Ceiling:	Maximum limit value:	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AELG(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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End of Safety Data Sheet