

Issuing Date: 2025-03-05**Version:** 1

1. Identification

A. Product identifier

Product name MDL-28170 (Calpain Inhibitor III)**MSDS Number** 10727

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

Supplier
Seoulin Bioscience Co., Ltd.
경기도 성남시 분당구 대왕판교로 700
TEL: 1670-5911
E-mail: support@seoulin.co.kr

Supplier
Koram Biotech Co., Ltd.
서울시 강남구 선릉로 76길 4
TEL: 02-556-0311
Email: koram@korambiotech.com

For further information, please contact

Email address support@cellsignal.com

Emergency telephone number **CHEMTREC** 24 hours a day, 7 days a week, 365 days a year
+1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)
080-880-0468

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

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

Chemical name	CAS No	Weight-%	Other information
Carbamic acid, N-[(1S)-1-[[[(1-formyl-2-phenylethyl)amino]carbonyl]-2-methylpropyl]-, phenylmethyl ester	88191-84-8	100	

4. First-aid measures

- A. In case of eye contact** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
- B. In case of skin contact** If symptoms persist, call a physician.
- C. In case of inhalation** Move to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.
- D. In case of ingestion** Clean mouth with water and afterwards drink plenty of water. If symptoms persist, call a physician.
- 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, Carbon dioxide (CO₂), Water spray, Dry chemical, Alcohol-resistant foam

Unsuitable Extinguishing Media No information available

B. Specific hazards arising from the chemical

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

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove combustible material and, if possible, all exposed reservoirs. Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

B. Environmental precautions

See Section 12 for additional 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 Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. The containers in use must be kept in vertical position, so as to avoid the intrusion of the liquid phase in facilities designed for the gas phase. Avoid dust formation in confined areas.

B. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Incompatible products Strong acids, Strong bases

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 In case of inadequate ventilation wear respiratory protection.

Eye protection Safety glasses with side-shields

Hand protection Impervious gloves

Body protection Wear suitable protective clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

A. Appearance	Powder
Physical State	Solid
color	White
B. Odor	No information available
C. Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
D. pH	No information available	None known
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 explosion limit	No information available.	No information available
Lower explosion 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:	No information available	None known
n-octanol/water		
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

Explosion Data

Sensitivity to mechanical impact	None
Sensitivity to static discharge	None

B. Conditions to Avoid	Extremes of temperature and direct sunlight
C. Incompatible products	Strong acids, Strong bases
D. Hazardous Decomposition Products	Carbon oxides (CO _x), Nitrogen oxides (NO _x)

11. Toxicological information

A. Information on the likely routes of exposure

Product Information

Inhalation	There is no data available for this product.
Ingestion	There is no data available for this product.
Eye contact	There is no data available for this product.
Skin contact	There is no data available for this product.
Symptoms	No information available.

B. Health hazards information

Numerical measures of toxicity No information available

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available
Sensitization	No information available
Carcinogenicity	No information available.
Mutagenic effects	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.

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	No information available

15. Regulatory information

A. Industrial Safety and Health Law

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: 2025-03-05

C. Revision number and date

Version: 1

D. Other information

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) (AEGL(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

Disclaimer

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End of Safety Data Sheet