

**Safety Data Sheet** (United States)

(4S)-5-[[[(2S)-1-[[[(2S)-1-Amino-1-oxohexan-2-yl]amino]-1-oxopropan-2-yl]amino]-4-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2,6-diaminohexanoyl]amino]propanoyl]amino]-5-(diaminomethylideneamino)pentanoyl]amino]-3-methylbutanoyl]amino]hexanoyl]amino]-3-(4-nitrophenyl)propanoyl]amino]-5-oxopentanoic acid

**1. Identification**

Product name: (4S)-5-[[[(2S)-1-[[[(2S)-1-Amino-1-oxohexan-2-yl]amino]-1-oxopropan-2-yl]amino]-4-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2,6-diaminohexanoyl]amino]propanoyl]amino]-5-(diaminomethylideneamino)pentanoyl]amino]-3-methylbutanoyl]amino]hexanoyl]amino]-3-(4-nitrophenyl)propanoyl]amino]-5-oxopentanoic acid

Catalog#: 1900CW

IUPAC name: (4S)-5-[[[(2S)-1-[[[(2S)-1-amino-1-oxohexan-2-yl]amino]-1-oxopropan-2-yl]amino]-4-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2,6-diaminohexanoyl]amino]propanoyl]amino]-5-(diaminomethylideneamino)pentanoyl]amino]-3-methylbutanoyl]amino]hexanoyl]amino]-3-(4-nitrophenyl)propanoyl]amino]-5-oxopentanoic acid

Product use restrictions: Only for research and development use by, or directly under the supervision of, a technically qualified individual.

Company: AK Scientific, Inc.  
30023 Ahern Ave.  
Union City, CA 94587

Telephone: (510) 429-8835

Fax: (510) 429-8836

Website: www.aksci.com

Emergency contact: 1-800-633-8253 United States & Canada  
1-801-629-0667 International number:

**2. Hazard Identification:****GHS Classification (United States)**

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

**Pictogram(s)****Signal word:**

Warning

**Hazard statement(s)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Precautionary statement(s):**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a poison center or doctor if you feel unwell.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

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P337+P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:**

None

**3. Composition/Information on Ingredients**

Synonyms: DTXSID80580456;MFCD00133510;Lys-Ala-Arg-Val-Nle-p-nitro-Phe-Glu-Ala-Nleamide;Lys-Ala-Arg-Val-Nle-p-nitro-Phe-Glu-Ala-Nle amide, >=97%  
(HPLC);(4S)-5-[[[(1S)-2-[[[(1S)-1-carbamoylpentyl]amino]-1-methyl-2-oxo-ethyl]amino]-4-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2,6-diaminohexanoyl]amino]propanoyl]amino]-5-guanidino-pentanoyl]amino]-3-methyl-butanoyl]amino]hexanoyl]amino]-3-(4-nitrophenyl)propanoyl]amino]-5-oxo-pentanoic acid

CAS#: 128340-47-6  
Purity: 95%  
EC: Not available.

**4. First Aid Measures**

**General Information:** Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

**Skin contact:** Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

**Eye contact:** Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

**Ingestion:** Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

**Most important symptoms and effects, both acute and delayed:** No further information available. Please see sections 2 and 11.

**Indication of any immediate medical attention and special treatment needed:** No further information available.

**5. Fire Fighting Measures**

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

**Specific hazards arising from the chemical:** Carbon oxides, Nitrogen oxides.

**Advice for firefighters:** As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

**Environmental precautions:** Do not let product enter drains, other waterways, or soil.

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## 7. Handling and Storage

**Conditions for safe storage, including any incompatibilities:** Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term in a cool, dry place.

OSHA PEL: Not available.  
NIOSH REL: Not available.  
ACGIH TLV: Not available.

## Personal protection

Eyes:	Not Available.
Hands:	Not Available.
Skin and body:	Not Available.
Respiratory:	Not Available.

Physical State:	Not available.
Molecular Formula:	C49H83N15O13
Molecular Weight:	1090.3
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	Not available.
Freezing/Melting Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.
Relative Density:	Not available.
Refractive Index:	Not available.
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Partition Coefficient:	Not available.

## 10. Stability and Reactivity

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## 11. Toxicological Information

## Carcinogenicity

## 12. Ecological Information

## 13. Disposal Considerations

## 14. Transportation Information

### DOT (United States)

## IATA

## 15. Regulatory Information

### TSCA (United States)

Not Available.

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Not Available..

Health:

Not available.

Not available.

Not available.

## Revision Date: 04/25/2022

Printed Date: 04/29/2022

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