

3-Deazaneplanocin A (DZNep) Hydrochloride SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** 3-Deazaneplanocin A (DZNep) Hydrochloride
- **Catalog Number:** S7120
- **CAS Number:** 120964-45-6
- **IUPAC Name:** (1S,2R,5R)-5-(4-amino-1H-imidazo[4,5-c]pyridin-1-yl)-3-(hydroxymethyl)-3-cyclopentene-1,2-diol,hydrochloride (1:1)

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

GHS Classification:

The substance is not classified as a hazardous substance or mixture according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements:

The product does not require any hazard pictograms or signal words. It is not a hazardous substance or mixture.

Other Hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Components: No hazardous ingredients are present in this substance.

No specific chemical structural formula is mentioned in the provided text for this section.

4. FIRST AID MEASURES

Inhalation: If inhaled, move the person to fresh air.

Skin Contact: Take off all contaminated clothing immediately. Rinse the affected skin area with water or shower.

Eye Contact: Rinse eyes thoroughly with plenty of water. Remove contact lenses if present.

Ingestion: If swallowed, have the victim drink a maximum of two glasses of water. Consult a physician if the individual feels unwell.

Most Important Symptoms and Effects: The most important known symptoms and effects are described in the labeling (Section 2.2) and/or Section 11.

Protection of First-Aiders: Refer to Section 8 for personal protective equipment.

Notes to Physician: N/A.

5. FIREFIGHTING MEASURES

Extinguishing Media: There are no limitations on extinguishing agents for this substance.

Hazardous Combustion Products: Combustion may produce carbon oxides, nitrogen oxides (NO_x), and hydrogen chloride gas.

Specific Extinguishing Methods: N/A.

Further Information: Use water spray jet to suppress gases, vapors, or mists. Prevent firefighting water from entering surface water or groundwater systems.

Special Protective Equipment: Firefighters should wear a self-contained breathing apparatus in the event of a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Emergency Procedures:

- For non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area and consult an expert.
- For emergency responders: Utilize personal protection as recommended in Section 8.

Environmental Precautions: Do not allow the product to enter drains.

Methods and Materials for Containment and Cleaning Up: Cover drains. Collect and bind spills. Take up the material dry and dispose of it properly. Clean the affected area and avoid the generation of dusts.

7. HANDLING AND STORAGE

Handling: Refer to Section 2.2 for precautions.

Storage Conditions: Keep the container tightly closed in a dry place. Store with a desiccant.

Storage Class: 11 (Combustible Solids).

Recommended Storage Temperature: -4 °F / -20 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values.

Engineering Measures: N/A.

Personal Protective Equipment:

- **Respiratory Protection:** Required when dusts are generated. Recommended filter type P1 (based on DIN EN 143/14387 standards).
- **Hand Protection:** Handle with nitrile rubber gloves (Full contact/Splash contact: 0.11 mm thickness, 480 min breakthrough time).
- **Eye Protection:** Use safety glasses tested and approved under standards such as NIOSH (US) or EN 166 (EU).
- **Hygiene Measures:** Change contaminated clothing and wash hands after handling the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Color:** N/A
- **Odor:** N/A
- **Odor Threshold:** N/A
- **pH:** N/A
- **Melting Point:** N/A
- **Boiling Point:** N/A
- **Flash Point:** N/A
- **Evaporation Rate:** N/A
- **Flammability (solid, gas):** N/A
- **Vapor Pressure:** N/A
- **Relative Vapor Density:** N/A
- **Relative Density:** N/A
- **Density:** N/A
- **Water Solubility:** N/A
- **Partition Coefficient (n-octanol/water):** N/A
- **Autoignition Temperature:** N/A
- **Decomposition Temperature:** N/A
- **Viscosity:** N/A
- **Explosive Properties:** N/A
- **Oxidizing Properties:** N/A
- **Molecular Weight:** 298.73 g/mol

10. STABILITY AND REACTIVITY

Reactivity: N/A.

Chemical Stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of Hazardous Reactions: N/A.

Conditions to Avoid: No information available.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: In the event of fire, see Section 5.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: N/A for oral, inhalation, or dermal exposure.

Skin Corrosion/Irritation: N/A.

Serious Eye Damage/Irritation: N/A.

Respiratory or Skin Sensitization: N/A.

Germ Cell Mutagenicity: N/A.

Carcinogenicity:

- **IARC:** No component present at levels $\geq 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen.
- **NTP:** No component present at levels $\geq 0.1\%$ is identified as a known or anticipated carcinogen.
- **OSHA:** No component present at levels $\geq 0.1\%$ is identified as a regulated carcinogen.

Reproductive Toxicity: N/A.

STOT - Single/Repeated Exposure: N/A.

Aspiration Hazard: N/A.

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

12. ECOLOGICAL INFORMATION

No specific data provided for this section.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Waste material must be disposed of in accordance with national and local regulations. Chemicals should be left in their original containers and not mixed with other waste. Handle uncleaned containers in the same manner as the product itself.

14. TRANSPORT INFORMATION

DOT (49 CFR): Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

Transport in Bulk: Not applicable for the product as supplied.

Special Precautions: Not classified as dangerous in the meaning of transport regulations. Poison Inhalation Hazard: No.

15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components CAS-No. Component TPQ (lbs)

SARA 311/312 : No SARA Hazards

Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

3-Deazaneplanocin A hydrochloride 120964-45-6

New Jersey Right To Know

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California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/06/30

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.