

# SAFETY DATA SHEET



SDS No. SDS\_smNuc\_Eng01

Revised Date: 2025/05/07

## 1. Identification of the Substance/Mixture and of the Company/Undertaking

- **Product Name:** Serratia marcescens Nuclease, recombinant / Serratia marcescens Nuclease (His-tagged), recombinant
- **Product Code:** RP-smNuc-S, RP-smNuc-L / RP-NucHis-S, RP-NucHis-L
- **Supplier:** ProteinExpress Co., Ltd. ADDRESS: 2-1-6, Kazusakamatari, Kisarazu-shi, Chiba 292-0818, Japan. TELEPHONE NUMBER: +81-438-52-0112
- **Emergency Contact Number:** +81-438-52-0112
- **Recommended Use and Restrictions on Use:** Research chemical

## 2. Hazards Identification

- **GHS Classification:** Not classified
- **Signal Word:** None
- **Hazard Statements:** None
- **Precautionary Statements:**
  - For laboratory use only.
  - Wear appropriate personal protective equipment (see Section 8).
  - Wash hands thoroughly after handling.

## 3. Composition/Information on Ingredients

Ingredient	CAS No.	Concentration	GHS Classification
Serratia marcescens Nuclease	(Proprietary)	Trace	(Not classified)
Tris/HCl	N/A	20 mM	(Not classified)
Sodium Chloride	7647-14-5	20 mM	(Not classified)
Magnesium Chloride	7786-30-3	2 mM	(Not classified)
Glycerol	56-81-5	50%	(Not classified)
Water	7732-18-5	Balance	(Not classified)

## 4. First Aid Measures

- **If inhaled:** Remove person to fresh air and keep comfortable for breathing.
- **If on skin:** Wash with plenty of soap and water.
- **If in eyes:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention.

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## 5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, carbon dioxide, foam, dry chemical.
  - **Specific Hazards Arising from the Chemical:** May emit toxic or irritating fumes under fire conditions.
  - **Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and appropriate protective clothing.
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## 6. Accidental Release Measures

- **Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate personal protective equipment (protective goggles, gloves, and clothing). Ensure adequate ventilation. Avoid breathing vapors or mist.
  - **Environmental Precautions:** Prevent spillage from entering drains or watercourses. Avoid release to the environment.
  - **Methods and Materials for Containment and Cleaning Up:** Absorb spillage with inert absorbent material (e.g., sand, earth). Collect and place in a suitable container for disposal. Wash contaminated area with soap and water.
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## 7. Handling and Storage

- **Handling:**
    - Use with adequate ventilation.
    - Wear appropriate personal protective equipment (protective goggles, gloves, and clothing).
    - Avoid contact with eyes, skin, and clothing.
    - Do not eat, drink, or smoke in work areas.
    - Wash hands thoroughly after handling.
  - **Storage:**
    - Store in a cool, dry, and well-ventilated place.
    - Keep away from direct sunlight and heat sources.
    - Keep away from incompatible materials.
    - Keep container tightly closed.
    - Store at recommended storage temperature.
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## 8. Exposure Controls/Personal Protection

- **Control Parameters:** Not established.
- **Exposure Limits:** Not established.
- **Appropriate Engineering Controls:** Provide adequate ventilation.

- **Individual Protection Measures, such as Personal Protective Equipment:**
    - **Respiratory Protection:** Use appropriate respiratory protection (e.g., organic vapor respirator, particle filter respirator) if ventilation is inadequate.
    - **Hand Protection:** Wear appropriate chemical-resistant gloves.
    - **Eye Protection:** Wear safety goggles or face shield.
    - **Skin and Body Protection:** Wear appropriate protective clothing.
    - **Hygiene Measures:** Wash hands after working with the substance. Wash contaminated clothing before reuse.
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## 9. Physical and Chemical Properties

- **Appearance:** Colorless clear liquid
  - **Odor:** No specific odor or slightly characteristic odor
  - **pH:** 8.0
  - **Melting Point/Freezing Point:** No data available
  - **Boiling Point and Boiling Range:** No data available
  - **Flash Point:** No data available
  - **Evaporation Rate:** No data available
  - **Flammability (solid, gas):** Not applicable (liquid)
  - **Upper/Lower Flammability or Explosive Limits:** No data available
  - **Vapor Pressure:** No data available
  - **Vapor Density:** No data available
  - **Relative Density:** Approximately 1.1 - 1.2 (depending on solution composition)
  - **Solubility(ies):** Soluble in water
  - **Partition Coefficient: n-octanol/water:** No data available
  - **Auto-ignition Temperature:** No data available
  - **Decomposition Temperature:** No data available
  - **Viscosity:** No data available
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## 10. Stability and Reactivity

- **Reactivity:** No specific reactivity hazards known.
- **Chemical Stability:** Stable under normal conditions.
- **Possibility of Hazardous Reactions:** May react dangerously under certain conditions (e.g., contact with incompatible materials).
- **Conditions to Avoid:** High temperatures, direct sunlight, contact with incompatible materials.
- **Incompatible Materials:** Strong acids, strong bases, oxidizing agents.
- **Hazardous Decomposition Products:** May emit carbon oxides, nitrogen oxides, hydrogen halides, and other toxic gases upon heating.

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## 11. Toxicological

- **Acute Toxicity:** Limited data available for oral, dermal, and inhalation routes.
- **Skin Corrosion/Irritation:** May cause mild skin irritation.
- **Serious Eye Damage/Irritation:** May cause mild eye irritation.
- **Respiratory or Skin Sensitization:** No data available
- **Germ Cell Mutagenicity:** No data available
- **Carcinogenicity:** No known carcinogenic ingredients.
- **Reproductive Toxicity:** No data available
- **Specific Target Organ Toxicity - Single Exposure:** No data available
- **Specific Target Organ Toxicity - Repeated Exposure:** No data available
- **Aspiration Hazard:** No data available

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## 12. Ecological Information

- **Ecotoxicity:** Limited data available on aquatic toxicity. Avoid release to the environment.
- **Persistence and Degradability:** No data available
- **Bioaccumulative Potential:** No data available
- **Mobility in Soil:** No data available
- **Other Adverse Effects:** No data available

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## 13. Disposal Considerations

- **Waste Treatment Methods:** Dispose of waste in accordance with local, regional, and national regulations. Dispose of through a licensed waste disposal contractor.
- **Contaminated Packaging:** Dispose of contaminated packaging in accordance with local, regional, and national regulations.

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## 14. Transport Information

- **UN Number:** Not applicable
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class(es):** Not applicable
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not applicable
- **Special Precautions for User:** Handle with care to avoid damage to containers.

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## 15. Regulatory Information

- Not applicable
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## 16. Other Information

- **Disclaimer:** This SDS is prepared based on the best information available at the time of writing. It does not purport to be all-inclusive and shall be used only as a guide. This information is intended as guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification.