



For Research Use Only · Not for Human Consumption

SECTION 1 — PRODUCT IDENTIFICATION

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| Product Name | Prostamax (Lys-Glu-Asp-Leu) |
| CAS Number | 135537-09-6 |
| Molecular Formula | C22H38N4O9 |
| Molecular Weight | 490.6 g/mol |
| Catalog / SKU | VEL-PROSTA |
| Intended Use | In vitro laboratory research only. Not for therapeutic, diagnostic, or human/veterinary use. |
| Supplier | Vial & Error Labs · www.vialanderrorlabs.com · info@vialanderrorlabs.com |
| Emergency Phone | +1-800-535-5053 (CHEMTREC — North America) |
| Issue / Revision | 22 Feb 2026 - Revision 1.0 - Compliant with GHS Rev. 8 / OSHA HCS 29 CFR 1910.1200 |

SECTION 2 — HAZARD IDENTIFICATION (GHS / OSHA HCS)

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| GHS Classification | Not classified as hazardous per GHS criteria at research-grade quantities. |
| Signal Word | WARNING (precautionary for dust/powder handling) |
| Hazard Statements | H302: Harmful if swallowed (precautionary). H315/H319: May cause skin/eye irritation. |
| Precautionary Statements | P260: Do not breathe dust. P264: Wash hands after handling. P270: Do not eat, drink, or smoke when using this product. P280: Wear gloves/eye protection. P301+P312: IF SWALLOWED and unwell, call a POISON CENTER. |
| GHS Pictogram | GHS07 — Exclamation mark (general hazard) |
| HMIS Rating | Health 1 · Flammability 0 · Physical Hazard 0 · PPE B |
| Other Hazards | Peptide/compound of unknown acute toxicity in humans. Exercise standard laboratory precautions at all times. |

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

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| Substance / Mixture | Pure substance |
| Chemical / IUPAC Name | Prostamax (Lys-Glu-Asp-Leu) |
| CAS Number | 135537-09-6 |
| Molecular Formula | C22H38N4O9 |
| Molecular Weight | 490.6 g/mol |
| Amino Acid Sequence | Lys-Glu-Asp-Leu |
| Nominal Purity | ≥98% (HPLC) |
| Impurities / Additives | Trace residuals ≤2–5% by HPLC. No known hazardous impurities at research quantities. |
| EC Number | Not assigned (research compound) |

SECTION 4 — FIRST AID MEASURES



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| Inhalation | Remove person to fresh air. Rest in a position comfortable for breathing. If symptoms persist or breathing is difficult, seek immediate medical attention. |
| Skin Contact | Remove contaminated clothing and shoes immediately. Wash affected area thoroughly with soap and copious water for ≥ 15 minutes. Seek medical attention if irritation develops or persists. |
| Eye Contact | Immediately flush eyes with large amounts of water for ≥ 15 minutes, holding eyelids open. Remove contact lenses if easily possible. Seek urgent medical attention. |
| Ingestion | Rinse mouth with water. Do NOT induce vomiting unless directed by medical personnel. Give water to drink if conscious. Seek immediate medical attention. Provide this SDS to treating physician. |
| Notable Symptoms | Irritation of mucous membranes, skin, and eyes. No compound-specific antidote known. |
| Medical Note | Symptomatic and supportive treatment. No specific antidote. Provide treating physician with this SDS. |

SECTION 5 — FIRE-FIGHTING MEASURES

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| Flash Point | Not applicable (non-volatile lyophilized/crystalline solid) |
| Autoignition Temperature | Not determined |
| Flammability Classification | Not classified as flammable. May form combustible dust clouds in large quantities. |
| Suitable Extinguishing Media | Dry chemical, carbon dioxide (CO ₂), water mist, or foam. Avoid solid water jets on burning material. |
| Hazardous Combustion Products | Carbon monoxide (CO), carbon dioxide (CO ₂), nitrogen oxides (NO _x), hydrogen sulfide (if S-containing residues present). |
| Special Protective Equipment | Wear self-contained breathing apparatus (SCBA) and full protective clothing for firefighting. |

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | Evacuate non-essential personnel. Wear full PPE (Sec. 8). Avoid inhalation of powder/dust. Ensure adequate ventilation before re-entering. |
| Environmental Precautions | Prevent discharge to drains, surface water, or groundwater. Notify relevant environmental authorities if large-scale release occurs. |
| Containment & Cleanup | Carefully collect powder by sweeping or vacuuming with HEPA-filtered vacuum. Transfer to sealed, labeled waste containers for disposal per Sec. 13. Decontaminate area with water and detergent. |
| Reference Sections | See Section 7 (Handling/Storage), Section 8 (PPE), and Section 13 (Disposal) for further guidance. |

SECTION 7 — HANDLING AND STORAGE

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| Safe Handling Precautions | Handle under BSL-1 conditions minimum. Avoid generating aerosols or dust. Use in well-ventilated laboratory or fume hood. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. |
| Recommended Storage Conditions | -20°C, desiccated, protected from light |



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| Container Requirements | Keep in original sealed vial. Ensure container is tightly closed when not in use. Do not transfer to unlabeled secondary containers. |
| Incompatible Materials | Strong oxidizers, strong acids (pH <2), strong bases (pH >12). Avoid prolonged exposure to moisture, humidity, or UV light. |
| Specific Use Restrictions | For laboratory research use only. Not for resale to consumers or use in food, drug, medical device, or cosmetic products. |
| Shelf Life | 24 months from manufacture date when stored as specified. Refer to lot-specific COA for confirmed expiry. |

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Occupational Exposure Limits | No OSHA PEL, ACGIH TLV, or established OEL for this compound. Apply ALARP principle. |
| Engineering Controls | Laboratory fume hood or biosafety cabinet preferred. General dilution ventilation acceptable for small quantities. |
| Respiratory Protection | N95 or P100 particulate respirator when handling bulk powder or generating aerosols. |
| Hand Protection | Chemical-resistant gloves (nitrile, ≥0.1 mm thickness). Inspect for defects before each use. Change gloves immediately if contaminated. |
| Eye / Face Protection | Safety glasses with side shields minimum; chemical splash goggles for larger quantities or high-hazard operations. |
| Skin / Body Protection | Laboratory coat, long pants, and closed-toe footwear. Remove contaminated clothing immediately. |
| Hygiene Measures | Wash hands and forearms with soap and water before breaks, eating, or leaving the laboratory. Do not eat, drink, or smoke in laboratory areas. |

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State | Solid (lyophilized powder) |
| Appearance | White lyophilized powder |
| Odor | Odorless to very faintly characteristic |
| pH (1% aq. solution) | Approximately 4.0–8.0 (compound-dependent) |
| Melting / Decomp. Pt. | Decomposes on heating (no sharp melting point typical of peptides) |
| Solubility | Soluble in water (≥5 mg/mL) |
| Partition Coefficient | Not determined |
| Vapor Pressure | Negligible at 20°C (non-volatile solid) |
| Relative Density | ~1.2–1.5 g/cm ³ (estimated) |
| Bulk Density | ~0.1–0.4 g/cm ³ (lyophilized, estimated) |

SECTION 10 — STABILITY AND REACTIVITY

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| Chemical Stability | Stable under recommended storage conditions. Lyophilized (dry) form is significantly more stable than aqueous solutions. |
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| Conditions to Avoid | Excessive heat (>40°C), moisture/humidity, direct light (especially UV), repeated freeze-thaw cycles, extremes of pH. |
| Incompatible Materials | Strong oxidizing agents, strong acids, strong bases, heavy metal ions (especially for Cys-containing peptides). |
| Hazardous Decomposition | Thermal decomposition may produce CO, CO ₂ , NO _x , and (if applicable) H ₂ S or SO ₂ . |
| Hazardous Polymerization | Will not occur under normal storage or handling conditions. |
| Possibility of Hazardous Reactions | None known under recommended conditions of use. |

SECTION 11 — TOXICOLOGICAL INFORMATION

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| Acute Toxicity (oral) | No data available for this specific compound. Treat as potentially harmful if ingested. |
| Acute Toxicity (dermal) | No data available. Avoid prolonged skin contact. |
| Acute Toxicity (inhalation) | No data available. Avoid inhalation of dust or aerosols. |
| Skin / Eye Irritation | Based on structural class analogues: mild to moderate irritant potential. |
| Sensitization | No data available. Some peptides may cause sensitization in susceptible individuals. |
| Carcinogenicity | Not listed by IARC, NTP, or OSHA as a confirmed or probable carcinogen. |
| Reproductive / Dev. Tox. | No data available. Use with appropriate caution. |
| STOT | No data available for single or repeated exposure. |
| Aspiration Hazard | Not applicable (solid). |
| Key Human Disclaimer | This compound has not been approved for human use. Toxicological profile in humans is NOT established. Intended for in vitro research only. |

SECTION 12 — ECOLOGICAL INFORMATION

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| Aquatic Toxicity | No data available. Treat as potentially harmful to aquatic organisms. |
| Persistence & Degradability | Peptides/proteins are generally biodegradable under environmental conditions. |
| Bioaccumulation | Not expected based on molecular size and hydrophilicity. |
| Mobility in Soil | Data not available. Likely to bind to organic matter. |
| PBT / vPvB Assessment | Not assessed. Not expected to be PBT/vPvB based on structure. |

SECTION 13 — DISPOSAL CONSIDERATIONS

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| Waste Disposal Method | Dispose in accordance with all applicable local, state, federal, and international regulations. Treat as chemical waste. |
| Contaminated Packaging | Empty containers that have not been decontaminated should be treated as chemical waste. Clean, uncontaminated containers may be recycled per local regulations. |
| Regulatory Basis | US EPA 40 CFR Parts 261-268; EU Waste Framework Directive 2008/98/EC; local applicable regulations. |



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SECTION 14 — TRANSPORT INFORMATION

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| UN Number | Not regulated as dangerous goods for transport (research quantities). |
| UN Proper Shipping Name | Not regulated. Research chemical — not classified as hazardous material under DOT/IATA/IMDG for typical research quantities. |
| Transport Hazard Class | Not classified |
| Packing Group | Not applicable |
| Environmental Hazard | Not known to be a marine pollutant. |
| Special Precautions | Transport dry ice (if frozen). Ensure secondary containment. Comply with carrier requirements for biological research materials. |

SECTION 15 — REGULATORY INFORMATION

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| OSHA HCS (US) | This SDS prepared in compliance with OSHA Hazard Communication Standard 29 CFR 1910.1200 and GHS Revision 8. |
| TSCA (US) | Research-use chemical. Verify TSCA inventory status before commercial use. |
| EU REACH | Substances <1 tonne/year may be exempt from registration. User responsible for verifying applicable registration requirements. |
| Controlled Substance Status | Verify DEA/local scheduling status before ordering or using. Vial & Error Labs makes no representation regarding scheduling in any jurisdiction. |
| Research Use Only Statement | NOT approved by FDA or any regulatory authority for diagnostic, therapeutic, human, or veterinary use. |

SECTION 16 — OTHER INFORMATION

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| Revision | Rev 1.0 — Issued 22 Feb 2026 |
| Prepared By | Vial & Error Labs Quality & Regulatory Compliance Team |
| Key References | GHS Rev. 8 (UN Purple Book); OSHA 29 CFR 1910.1200; NFPA 704; compound-specific primary literature |
| Disclaimer | The information in this SDS is believed to be correct and is provided in good faith as guidance for safe handling. Vial & Error Labs makes no warranty of merchantability or fitness for purpose. User assumes full responsibility for ensuring compliance with all applicable laws and regulations. |
| Contact | www.vialanderrorlabs.com · info@vialanderrorlabs.com |