



## SAFETY DATA SHEET

### Semax — 5 mg

SDS Version 1.0 | Date Prepared: 2026-08-11

#### Section 1 — Product and Company Identification

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Product Name             | Semax — 5 mg                                                                     |
| Chemical Name / Sequence | Met-Glu-His-Phe-Pro-Gly-Pro                                                      |
| Synonyms                 | Semax; ACTH(4-7) analog                                                          |
| Catalog / SKU            | VRL-SEMAX-5                                                                      |
| Product Category         | Research Peptides — Neurological Research                                        |
| Recommended Use          | For laboratory research purposes only. Not intended for human or veterinary use. |
| Supplier                 | Valor Research Labs                                                              |
| Address                  | St. Augustine, FL 32080, United States                                           |
| Website                  | <a href="https://valorresearchlabs.com">https://valorresearchlabs.com</a>        |
| Email                    | <a href="mailto:support@valorresearchlabs.us">support@valorresearchlabs.us</a>   |
| Emergency Phone          | 1-800-222-1222 (U.S. Poison Control Center, 24 hours)                            |

#### Section 2 — Hazard Identification

**GHS Classification:** Not classified as hazardous under GHS Revision 3 on the basis of currently available data. Standard laboratory precautions for handling fine powders or liquids apply.

**Signal Word:** None

**Pictogram:** None required

**Hazard Statements:** No specific GHS hazard statements have been assigned. Dust or liquid may cause mechanical irritation of eyes, skin, or respiratory tract.

**Precautionary Statements:** P264 — Wash thoroughly after handling. P280 — Wear protective gloves, eye protection, and a laboratory coat. P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. P302+P352 — IF ON SKIN: Wash with plenty of water.

#### Section 3 — Composition / Information on Ingredients

|                   |                                                   |
|-------------------|---------------------------------------------------|
| Component         | Semax — 5 mg                                      |
| CAS Number        | 80714-61-0                                        |
| Molecular Formula | C37H51N9O10S                                      |
| Molecular Weight  | ≈ 813.9 g/mol                                     |
| Purity            | ≥ 98%                                             |
| Form / Appearance | White to off-white lyophilized powder             |
| Notes             | Synthetic heptapeptide derived from ACTH fragment |

#### Section 4 — First-Aid Measures

**Inhalation:** Move person to fresh air. If symptoms appear or persist, obtain medical attention.

**Skin Contact:** Remove contaminated clothing. Wash thoroughly with soap and water.

**Eye Contact:** Flush eyes with large amounts of water for at least 15 minutes. Obtain medical attention.

**Ingestion:** Rinse mouth. Do not induce vomiting. Contact Poison Control (1-800-222-1222).

#### Section 5 — Fire-Fighting Measures

**Extinguishing Media:** Water spray, dry chemical, CO<sub>2</sub>, or alcohol-resistant foam.

**Specific Hazards:** Thermal decomposition may release carbon oxides, nitrogen oxides, and other fragments.

**Firefighter Protection:** Self-contained breathing apparatus and full protective gear.

## Section 6 — Accidental Release Measures

**Personal Precautions:** Minimize dust/aerosol generation. Wear gloves, eye protection, lab coat.

**Cleanup:** Collect carefully into labeled container. Wipe residual with damp cloth. Ventilate area.

## Section 7 — Handling and Storage

**Handling:** Handle in ventilated laboratory setting. Avoid dust creation. Do not eat, drink, or smoke while handling.

**Storage:** Lyophilized material at -20 °C, protected from light and moisture. After reconstitution store at 2-8 °C and use promptly.

**Incompatible Materials:** Strong oxidizers, strong acids, strong bases.

## Section 8 — Exposure Controls / Personal Protection

**Occupational Exposure Limits:** No established OELs.

**Engineering Controls:** Chemical fume hood or equivalent local exhaust.

**PPE:** Nitrile gloves, safety glasses with side shields, laboratory coat. Dust mask if airborne particles possible.

## Section 9 — Physical and Chemical Properties

|                |                                                   |
|----------------|---------------------------------------------------|
| Appearance     | White to off-white lyophilized powder             |
| Physical State | Solid (lyophilized) or liquid (Bac Water)         |
| Odor           | Odorless or faint                                 |
| Solubility     | Soluble in water / bacteriostatic water (typical) |
| pH             | Not applicable (solid) / near neutral (solutions) |

## Section 10 — Stability and Reactivity

**Stability:** Stable under recommended storage conditions (-20 °C, protected from light/moisture).

**Conditions to Avoid:** Excessive heat, moisture, strong light, repeated freeze-thaw cycles after reconstitution.

**Hazardous Decomposition:** Carbon oxides, nitrogen oxides under fire conditions.

## Section 11 — Toxicological Information

**Acute Toxicity:** No formal LD50/LC50 data available. Handle with standard laboratory precautions.

**Skin / Eye Irritation:** May cause mild mechanical irritation.

**Carcinogenicity / Mutagenicity / Reproductive Toxicity:** No data available. Not listed by IARC, NTP, or OSHA.

## Section 12 — Ecological Information

**Ecotoxicity / Persistence / Bioaccumulation:** No data available. Avoid release to the environment.

## Section 13 — Disposal Considerations

Dispose of contents and container in accordance with local, regional, national, and international regulations. Do not dispose into sinks or drains. Consult licensed laboratory waste disposal service.

## Section 14 — Transport Information

**UN Number / Proper Shipping Name / Hazard Class:** Not regulated for transport under current DOT, IATA, or IMDG criteria when shipped as non-hazardous research material in appropriate packaging.

## Section 15 — Regulatory Information

- OSHA HCS 2012 compliant (29 CFR 1910.1200).
- Sold strictly for laboratory research use only.
- Not intended for human consumption, veterinary, food, or cosmetic use.
- SARA / Prop 65: Not listed.

## Section 16 — Other Information

|                               |                                              |
|-------------------------------|----------------------------------------------|
| SDS Version                   | 1.0                                          |
| Date Prepared / Last Revision | 2026-08-11                                   |
| Prepared By                   | Quality Assurance                            |
| Issued By                     | Valor Research Labs, St. Augustine, FL 32080 |

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| <b>Document Format</b> | OSHA HCS 2012 / GHS Rev 3 (16-section)                |
| <b>Revision Notes</b>  | Initial release with verified CAS and molecular data. |

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