



## Safety Data Sheet (SDS)

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### SECTION 1 – Identification

**Product Name:** Animal Free Recombinant Human Interleukin-4 (IL-4)

**Synonyms:** B-cell stimulatory factor 1 (BSF-1), Lymphocyte stimulatory factor 1

**Catalog Number:** HIL4

**Recommended Use:** For research use only (RUO). Not for human or animal therapeutic or diagnostic use.

**Manufacturer Contact:**

Pacific Coast Biologics, INC.

2360 Eastman Ave Suite 101

Oxnard, CA 93030, USA

Email: support@pacificcoastbio.com

**Emergency Contact:** Local poison control center or emergency medical services.

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### SECTION 2 – Hazard Identification

**Classification (GHS):**

Not classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Signal Word:** None

**Hazard Statements:**

- May cause mild irritation to skin, eyes, and respiratory tract.
- Treat as potentially bioactive material.

**Precautionary Statements:**

- Avoid inhalation, ingestion, and direct contact.
- Use gloves, protective clothing, and safety eyewear.



- Wash thoroughly after handling.
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### **SECTION 3 – Composition/Information on Ingredients**

**Substance:** Recombinant Human IL-4 (Animal Free)

**CAS Number:** 207137-56-2

**EC Number:** Not assigned

**Formulation:** Lyophilized protein with no additives.

**Concentration:** Supplied in microgram ( $\mu\text{g}$ ) quantities per vial

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### **SECTION 4 – First Aid Measures**

- **Inhalation:** Move person to fresh air. Seek medical attention if symptoms develop.
  - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
  - **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical care if irritation persists.
  - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if unwell.
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### **SECTION 5 – Firefighting Measures**

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

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides.

**Protective Equipment:** Firefighters should wear SCBA and protective gear.

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### **SECTION 6 – Accidental Release Measures**

- Avoid aerosol generation.
- Wear gloves, goggles, and lab coat.
- Absorb spills with inert absorbent material.
- Clean with water and disinfectant.



- Dispose in accordance with regulations.
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## **SECTION 7 – Handling and Storage**

### **Handling:**

- Use appropriate protective equipment.
- Avoid inhalation, ingestion, or skin/eye contact.
- Work in biosafety cabinet if aerosols may form.

### **Storage:**

- Store lyophilized product at  $-20\text{ }^{\circ}\text{C}$  or below.
  - Store reconstituted aliquots at  $-80\text{ }^{\circ}\text{C}$ .
  - Avoid repeated freeze–thaw cycles.
  - Protect from light and moisture.
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## **SECTION 8 – Exposure Controls/Personal Protection**

**Exposure Limits:** None established.

**Engineering Controls:** Use in well-ventilated space; biosafety cabinet recommended.

### **Personal Protective Equipment (PPE):**

- **Eyes/Face:** Safety goggles
  - **Skin/Hands:** Nitrile or latex gloves; lab coat
  - **Respiratory:** Not normally required; respirator if aerosols are generated
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## **SECTION 9 – Physical and Chemical Properties**

- **Appearance:** White to off-white lyophilized powder; clear solution after reconstitution
- **Odor:** Odorless



- **Solubility:** Soluble in aqueous buffers
  - **pH:** Between pH 3.0 – 4.0 when reconstituted with purified water
  - **Stability:** Stable under recommended storage
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## **SECTION 10 – Stability and Reactivity**

**Stability:** Stable under recommended conditions.

**Conditions to Avoid:** Heat, light, repeated freeze–thaw cycles.

**Incompatible Materials:** Strong oxidizers.

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

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## **SECTION 11 – Toxicological Information**

- **Acute Toxicity:** No data available
  - **Irritation:** May cause mild irritation to skin, eyes, or respiratory tract
  - **Sensitization:** No data available
  - **Carcinogenicity/Mutagenicity/Reproductive Toxicity:** No data available
  - **Notes:** Handle as a protein with unknown toxicological properties but potential bioactivity
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## **SECTION 12 – Ecological Information**

- No data available
  - Expected to present minimal environmental risk in laboratory-scale quantities
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## **SECTION 13 – Disposal Considerations**

- Dispose according to local, state, and federal regulations.
- Treat as laboratory chemical waste.
- Decontaminate with disinfectant before disposal.



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## **SECTION 14 – Transport Information**

**UN Number:** Not regulated

**Proper Shipping Name:** Non-hazardous laboratory reagent

**Hazard Class:** Not applicable

**Packing Group:** Not applicable

**Special Precautions:** Product is stable at ambient temperatures

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## **SECTION 15 – Regulatory Information**

- OSHA HCS: Not classified as hazardous
  - TSCA: Not listed
  - SARA Title III: Not listed
  - California Proposition 65: Not listed
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## **SECTION 16 – Other Information**

**Prepared by:** Pacific Coast Biologics, INC.

**Date Prepared:** 02/28/2026

**Revision Number:** 1.0

This SDS is provided for laboratory safety purposes only and does not constitute a product warranty. Users are responsible for safe handling and regulatory compliance.

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