



Safety Data Sheet (SDS)

SECTION 1 – Identification

Product Name: Animal Free Recombinant Human Insulin-Like Growth Factor 1 (IGF-1)

Synonyms: Somatomedin C, IGF1, insulin-like growth factor I

Catalog Number: HIGF1

Recommended Use: For research use only (RUO). Not for diagnostic, therapeutic, or clinical applications in humans or animals.

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.

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, or respiratory tract.
- Handle as potentially bioactive material.

Precautionary Statements:

- Avoid inhalation, ingestion, and direct contact.
 - Wear gloves, protective eyewear, and lab coat.
 - Wash hands thoroughly after handling.
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SECTION 3 – Composition/Information on Ingredients

Substance: Recombinant Human IGF-1 (Animal Free)

CAS Number: 67763-96-6

EC Number: Not assigned

Formulation: Lyophilized protein with no additives.

Concentration: Supplied in microgram quantities per vial

SECTION 4 – First Aid Measures

General Advice: Provide SDS to medical personnel.

- **Inhalation:** Move person to fresh air. Seek medical attention if symptoms occur.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical help 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, carbon dioxide, dry chemical, or foam.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides.

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

SECTION 6 – Accidental Release Measures

- Avoid creating aerosols.
- Wear gloves, protective eyewear, and lab coat.
- Absorb spills with inert absorbent (paper towel, spill pads).
- Clean with water and appropriate disinfectant.



- Dispose of waste according to local regulations.
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SECTION 7 – Handling and Storage

Handling:

- Use standard laboratory safety procedures.
- Avoid inhalation, ingestion, and contact with skin or eyes.
- Work in a biosafety cabinet if aerosol generation is possible.

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: Work in a well-ventilated space; use biosafety cabinet if required.

PPE:

- **Eye/Face:** Safety glasses or goggles
 - **Skin:** Laboratory gloves and protective clothing
 - **Respiratory:** Not required under normal use; respirator recommended if aerosol risk present
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SECTION 9 – Physical and Chemical Properties

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



- **Solubility:** Soluble in aqueous buffers
 - **pH:** Below pH 3.0 when reconstituted in purified water
 - **Stability:** Stable when stored under recommended conditions
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SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

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

Incompatible Materials: Strong oxidizing agents.

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

SECTION 11 – Toxicological Information

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

- No specific data available.
 - Expected to have minimal environmental impact at laboratory scale.
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SECTION 13 – Disposal Considerations

- Dispose of material and container in accordance with local, state, and federal regulations.



- Decontaminate spills with suitable disinfectant prior to disposal.

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

SECTION 15 – Regulatory Information

- OSHA HCS: Not classified as hazardous
- TSCA: Not listed
- SARA Title III: Not listed
- California Proposition 65: Not listed

SECTION 16 – Other Information

Prepared by: Pacific Coast Biologics, INC

Date Prepared: 01/10/2026

Revision Number: 1.0

This SDS is intended for laboratory safety guidance only. It does not constitute a warranty of product suitability for any specific application. Users are responsible for compliance with applicable regulations.