



Safety Data Sheet (SDS)

SECTION 1 – Identification

Product Name: Animal Free Recombinant Human Basic Fibroblast Growth Factor 154 amino acid (bFGF 154)

Synonyms: FGF-2, bFGF, HBGF-2

Catalog Number: HFGF154

Recommended Use: For research use only (RUO). Not for human or veterinary diagnostic, therapeutic, or clinical use.

Manufacturer Contact:

Pacific Coast Biologics, INC.

2360 Eastman Ave, Suite 101

Oxnard, CA 93030, USA

Email: support@pacificcoastbio.com

In case of emergency: Seek local medical assistance or poison control center.

SECTION 2 – Hazard Identification

Classification (GHS):

This product is not classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word: None

Hazard Statements:

- May cause mild skin, eye, or respiratory irritation.
- Recombinant proteins should be handled as potentially bioactive materials.

Precautionary Statements:

- Avoid breathing dust, aerosols, or vapors.
- Avoid contact with skin, eyes, and clothing.
- Use protective equipment (gloves, lab coat, safety glasses).



- Wash thoroughly after handling.

SECTION 3 – Composition/Information on Ingredients

Product: Recombinant Human Basic Fibroblast Growth Factor 154 amino acid (Animal Free)

CAS Number: Not assigned

EC Number: Not assigned

Formulation: Lyophilized recombinant protein

Concentration: Typically supplied in microgram quantities per vial

SECTION 4 – First Aid Measures

General Advice: Provide this SDS to medical personnel. Seek medical attention if symptoms persist.

- **Inhalation:** Move to fresh air. If breathing becomes difficult, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention if unwell.

SECTION 5 – Firefighting Measures

Suitable Extinguishing Media: Use water spray, CO₂, dry chemical, or foam.

Hazards from Combustion: May produce carbon oxides, nitrogen oxides, and other irritating vapors if burned.

Protective Equipment: Firefighters should wear self-contained breathing apparatus (SCBA) and full protective gear.

SECTION 6 – Accidental Release Measures



- Avoid creating aerosols.
 - Wear appropriate PPE.
 - Absorb spills with inert material (e.g., paper towels).
 - Clean area with water and appropriate disinfectant.
 - Dispose of waste according to local regulations.
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SECTION 7 – Handling and Storage

Handling:

- Handle in accordance with good laboratory practices.
- Avoid inhalation, ingestion, or direct contact.
- Use only in designated laboratory areas.

Storage:

- Store lyophilized product at $-20\text{ }^{\circ}\text{C}$ or below.
 - Reconstituted solutions should be stored at $-80\text{ }^{\circ}\text{C}$ and aliquoted to avoid repeated freeze-thaw cycles.
 - Keep containers tightly closed.
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SECTION 8 – Exposure Controls/Personal Protection

Exposure Limits: None established.

Engineering Controls: Work in a well-ventilated area, preferably in a biosafety cabinet.

Personal Protective Equipment (PPE):

- Eye Protection: Safety glasses or chemical goggles
 - Skin Protection: Gloves and laboratory coat
 - Respiratory Protection: Not normally required; use NIOSH-approved respirator if aerosol formation is likely
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SECTION 9 – Physical and Chemical Properties

- **Appearance:** Lyophilized white to off-white powder, or clear solution after reconstitution
 - **Odor:** Odorless
 - **Solubility:** Soluble in water and biological buffers
 - **pH:** Below pH 7.2 – 7.4 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:** Excessive heat, light, repeated freeze-thaw cycles
 - **Incompatible Materials:** Strong oxidizers
 - **Hazardous Decomposition Products:** None under normal conditions
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SECTION 11 – Toxicological Information

- **Acute Toxicity:** Not established
 - **Skin/Eye Irritation:** Possible mild irritation
 - **Sensitization:** Not established
 - **Carcinogenicity/Mutagenicity/Reproductive Effects:** No data available
 - **Other Information:** Handle as potentially bioactive.
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SECTION 12 – Ecological Information

- No ecological data available.
 - Not expected to present environmental hazards at laboratory scale.
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SECTION 13 – Disposal Considerations

- Dispose of contents and container according to local, regional, and national regulations.
 - Decontaminate with suitable disinfectant before disposal.
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SECTION 14 – Transport Information

UN Number: Not regulated

Proper Shipping Name: Non-hazardous research material

Hazard Class: Not regulated

Packing Group: Not applicable

Transport Note: Product is stable at ambient temperatures

SECTION 15 – Regulatory Information

- OSHA Hazard Communication Standard: 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: 09/12/2025

Revision Number: 1.0

This SDS is intended to provide a summary of safe handling practices. It does not constitute a warranty of product properties. Users are responsible for safe use in their laboratory.

