



Safety Data Sheet (SDS)

SECTION 1 – Identification

Product Name: Animal Free Recombinant Human TPO

Synonyms: Thrombopoietin

Catalog Number: HTPO

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

Manufacturer Contact:

Pacific Coast Biologics, INC.

2360 Eastman Ave, Suite 101

Oxnard, CA 93030, USA

Email: support@pacificcoastbio.com

Emergency: Seek local medical assistance or poison control center.

SECTION 2 – Hazard Identification

Classification (GHS):

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

Signal Word: None

Hazard Statements:

- Not expected to be hazardous under normal laboratory handling.
- May cause mild skin, eye, or respiratory irritation in susceptible individuals.
- Proteinaceous materials should be handled as potentially bioactive.

Precautionary Statements:

- Avoid inhalation, ingestion, or contact with skin and eyes.
 - Use personal protective equipment (gloves, lab coat, safety glasses).
 - Wash hands thoroughly after handling.
-

SECTION 3 – Composition/Information on Ingredients



Product: Recombinant Human TPO (Animal Free)

CAS Number: Not assigned

EC Number: Not assigned

Formulation: Lyophilized recombinant protein with no additives.

Concentration: Varies by lot (typically microgram quantities per vial).

SECTION 4 – First Aid Measures

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

- **Inhalation:** Move person to fresh air. If breathing is difficult, seek medical attention.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention if feeling unwell.
-

SECTION 5 – Firefighting Measures

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

Special Hazards: Product is not flammable but may produce irritating fumes if involved in a fire.

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

SECTION 6 – Accidental Release Measures

- Avoid aerosol generation.
- Wear appropriate protective equipment.
- Absorb small spills with inert material (paper towel, absorbent pad). Dispose according to local regulations.
- Clean affected area with water and suitable disinfectant.



SECTION 7 – Handling and Storage

Handling:

- Handle using good laboratory practices.
- Avoid inhalation, ingestion, and contact with skin or eyes.
- Use only in designated laboratory areas.

Storage:

- Store lyophilized product at –20 °C or below.
- Reconstituted solutions should be stored at –80 °C and aliquoted to avoid freeze-thaw cycles.
- Keep container tightly closed.

SECTION 8 – Exposure Controls/Personal Protection

Exposure Limits: No occupational exposure limits established.

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

Personal Protective Equipment (PPE):

- Eye Protection: Safety glasses or goggles
- Skin Protection: Laboratory gloves and protective clothing
- Respiratory Protection: Not required under normal use; use NIOSH-approved respirator if aerosol formation is possible.

SECTION 9 – Physical and Chemical Properties

- **Appearance:** Lyophilized white to off-white powder, or clear aqueous solution after reconstitution
- **Odor:** Odorless
- **Solubility:** Soluble in water or physiological buffers
- **pH:** Below pH 3.0 when reconstituted in purified water



- **Stability:** Stable under recommended storage conditions
-

SECTION 10 – Stability and Reactivity

- **Stability:** Stable when stored as recommended
 - **Conditions to Avoid:** Avoid repeated freeze-thaw cycles, excessive heat, and light exposure
 - **Hazardous Decomposition Products:** None known under normal conditions
 - **Incompatibilities:** Strong oxidizers
-

SECTION 11 – Toxicological Information

- **Acute Toxicity:** No data available
 - **Skin/Eye Irritation:** May cause mild irritation
 - **Sensitization:** No data available
 - **Carcinogenicity/Mutagenicity/Reproductive Effects:** No data available
 - **Other Information:** Handle as potentially bioactive. Effects on humans not fully characterized.
-

SECTION 12 – Ecological Information

- No ecological data available.
 - Not expected to present significant environmental hazards at small laboratory quantities.
-

SECTION 13 – Disposal Considerations

- Dispose of contents and container according to local, regional, and national regulations.
 - Decontaminate waste material with appropriate disinfectant prior to disposal.
-



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
-

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 brief summary of knowledge and guidance regarding the safe handling of this product. It does not represent a guarantee of product properties. Users are responsible for ensuring safe conditions of use.