

MATERIAL SAFETY DATA SHEET**Section 1 - PRODUCT AND MANUFACTURER IDENTIFICATION**

PRODUCT GROUP: ELISA Kits
PRODUCT IDENTITY: Human FGF-23 (C-Term)
PART NUMBER: 60-6000
MANUFACTURER ADDRESS: Immutopics, Inc.
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San Clemente, CA 92673
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Telephone Number in Case of Emergency: (800)681-6665 (USA & Canada)

Section 2 - COMPOSITION AND INGREDIENT INFORMATION

Hazardous Substances in the Preparation:

Chemical	CAS#	Designation	% w/w
Sulfuric Acid (1 M)	7664-93-9	Corrosive	5.3%
Polyoxyethylenesorbitan Monlaurate (Tween 20)	9005-64-5	Irritant	1.0%
Ciprofloxacin Hydrochloride	85721-33-1	Potential Drug Allergen	< 0.1%
Sodium Azide (NaN ₃)	26628-22-8	Toxin	≤ 0.1%
Substrate Ingredient 1	N/A	Irritant	N/A
Substrate Ingredient 2	N/A	Irritant	N/A

Section 3 - HAZARDS IDENTIFICATION

Biochemicals:

All animal serum products used in kit components are derived from animals of US origin and processed in USDA licensed facilities.

Potential Chemical Hazard:

ELISA Wash Concentrate contains Ciprofloxacin HCl. Keep from personnel who have demonstrated sensitivity to Quinoline based drug products. ELISA HRP Substrate contains chemicals deemed to be proprietary by its manufacturer (Neogen Corp. Lexington, KY, www.neogen.com) Based on laboratory animal data, upon chronic overexposure these chemicals may cause reproductive disorders. Females who are or may be pregnant should avoid contact with both of these products.

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Avoid contact with ELISA Substrate and ELISA Stop Solution. Both contain materials which are an irritant to the skin and mucous membranes. In case of contact with any of these reagents, wash thoroughly with water.

Some of the reagents in this kit contain sodium azide. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide buildup (Manual Guide-Safety Management No. CDC-22, Center for Disease Control, Atlanta, Georgia, April 30, 1976).

Section 4 - FIRST AID MEASURES

Skin Contact: Remove contaminated clothing and thoroughly wash the exposed skin area with soap and water. If warranted, seek medical attention.

Eye Contact: Flush with copious amounts of water for at least 15 minutes. Seek medical attention.

Inhalation: Move to fresh air; give oxygen if breathing becomes difficult. Seek medical attention.

Ingestion: Provided the person is conscious flush mouth with copious amounts of water. Do not swallow rinse water. Seek medical attention.

Section 5 - FIRE AND EXPLOSION MEASURES

Suitable Extinguishing Media: Chemical or water fire extinguisher

Extinguishing Media Not to be Used: None known.

Special Fire Fighting Procedures: None known.

Unusual Fire and Explosion Hazards: None known.

Section 6 - ACCIDENTAL SPILL MEASURES

Body Precautions: Wear respirator, safety goggles, gloves, impermeable shoe covers and laboratory coat.

Environmental Precautions: Contain the spill to the smallest area possible.

Cleaning Measures: Take care not to contaminate body. Neutralize a Stop Solution spill with dilute base then absorb the material with disposable towels. Soak a standard and/or control spill area with 10% bleach solution and wipe up with disposable towels. Dispose of all contaminated trash in accordance with local regulations.

Section 7 - HANDLING AND STORAGE

Handling: Wear suitable personal protective equipment. Take care not to splash, spill or splatter any of the components.

Storage: Store the required kit components at 2 - 8° C.

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Section 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Hand Protection: Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves.
Change gloves when they become contaminated.
Eye Protection: Wear safety glasses or goggles.
Body Protection: Wear laboratory coat.
Respiratory Protection: Wear government approved respirator.
Other: Avoid hand/mouth contact. Wash hands as soon as possible after handling reagents or specimens.

Section 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical State: Liquid except for Standards (6 vials) and Controls (2 vials) which are lyophilized and the coated microwells.
pH: 5.5 - 7.4 for all components except Stop Solution at < 2 (highly acidic)
Boiling Point: Not applicable.
Melting Point: Not applicable.
Flash Point: Not applicable.
Flammability: Not Flammable.
Vapor Pressure: Not applicable.
Water Solubility: 100% soluble.

Section 10 - STABILITY AND REACTIVITY

Stability: Stable under storage conditions described in the package insert.
Conditions to Avoid: None known.
Materials to Avoid: None known.
Hazardous Decomposition Products: None known.

Section 11 - TOXICOLOGICAL INFORMATION

Effects of Hazardous Substances at the Concentrations Present in the Preparation:

Toxic Effects: None known.
Harmful Effects: Irritant to eyes, skin, mucous membranes and respiratory tract.
Sensitizing Effects: None known.
Carcinogenic/Mutagenic/Teratogenic Effects: Contains a possible teratogen.

Section 12 - ECOLOGICAL INFORMATION

None known.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal of Preparation: Dispose according to current regional and national regulations.
Contaminated Containers: Dispose according to current regulations.

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Section 14 - TRANSPORT INFORMATION

Dept. of Transportation DOT:	Not restricted.
Road/Railway Haulage ADR/RID:	Not restricted.
Sea Freight IMO (IMDG):	Not restricted.
Air Freight IATA (ICAO):	Not restricted.
UN Number:	Not applicable.

Section 15 - OTHER REGULATORY INFORMATION

Pursuant to U.S. OSHA regulations and the EEC Directive number 88/379, the only hazardous ingredients associated with this product are those listed in Section 2 above.

Section 16 - OTHER INFORMATION

Recommended Use: For Research Use Only. Not for use on or in humans and animals.

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