

SAFETY DATA SHEET

Cat# E4858-100 BioSim™ Tocilizumab (Actemra®) (Human) ELISA Kit

SDS DATE: July 28, 2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BioSim™ Tocilizumab (Actemra®) (Human) ELISA Kit
PRODUCT CODES: Cat# E4858-100
RESTRICTIONS ON USE: For laboratory research purposes. Not for drug or household use.
MANUFACTURER: BioVision, Inc.
DIVISION:
ADDRESS: 155 S. Milpitas Blvd. Milpitas, CA 95035
EMERGENCY PHONE: 858-373-8066
CHEMTREC PHONE:
OTHER CALLS: 408-493-1800
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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Description	Volume	Safety Information
Micro ELISA Plate	Plate	8 X 12 strips	No hazards
Tocilizumab Standards (S1 – S7)	Liquid	0.3 ml X 7	No hazards
Assay Buffer (5X)	Liquid (Contains Sodium Azide)	50 ml x 2	See Below
HRP-conjugate Probe	Liquid (Contains Proclin 150)	12 ml	See Below
TMB substrate (Avoid light)	Liquid	12 ml	No hazards
Stop Solution	Liquid (Contains Hydrochloric Acid)	12 ml	See Below
Wash buffer (20X)	Liquid	50 ml	No hazards
Plate sealers	--	2	No hazards

SECTION 3: HAZARDS IDENTIFICATION

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
Hydrochloric acid	7647-01-0	231-595-7	--	--	<5%
Sodium Azide	26628-22-8	247-852-1	65.01	N ₃ Na	<0.05%
Proclin 150	55965-84-9	--	--	--	<0.05%

Hydrochloric Acid:

Emergency Overview

GHS Classification: Skin Corr. 1B STOT SE 3

GHS Label elements, including precautionary statements



Pictogram:

Signal word: Danger

Hazard statement(s): Causes skin irritation.

Danger

Causes skin irritation.

Causes serious eye irritation.

Precautionary statement(s): Wash hands thoroughly after handling.

Wear protective gloves, clothing, and eye/face protection..

HMIS Classification

Health hazard: 1

Chronic health hazard: *

Flammability: 0

Physical hazards: 2

NFPA Rating

Health hazard: 3

Fire: 0

Reactivity hazard: 0

Special hazard: W

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Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Ingestion: May be harmful if swallowed

SECTION 4: FIRST AID MEASURES

General advice: No special measures required. Consult physician in case of complaints.

If inhaled: Supply fresh air.

In case of skin contact: Immediately flush skin with plenty of water. Cold water may be used. Remove contaminated clothing and shoes.

In case of eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used.

If swallowed: Rinse mouth with plenty of water

Most important symptoms and effects, both accurate and delayed There are no hazards under normal use conditions. Direct contact with eyes may cause slight and temporary irritation. Swallowing of larger amounts may lead to stomachache, vomiting or diarrhea.

Indication of any immediate medical attention and special treatment needed No specific therapy known. Use supportive and symptomatic treatment.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media: Water spray, alcohol resistant foam, dry-powder, carbon dioxide. Unsuitable extinguishing media: Direct water stream

Special hazards arising from the substance mixture To the best of our knowledge, no special hazards can be defined

Advice for fire-fighters No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Wear appropriate protective gloves and clothes.

Environmental precautions Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.

Methods and materials for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Use all reagents in accordance with the relevant package insert provided with the product. Do not smoke, eat, drink or apply cosmetics in areas where kit reagents are handled. Wear disposable latex gloves when handling reagents. Never pipet by mouth and avoid contact of reagents and specimens with skin and mucous membranes. Handling should be done in accordance with the procedures defined by an appropriate national biohazard safety guideline or regulation. Use all reagents in accordance with the relevant package insert provided with the product.

Conditions for safe storage, including any incompatibilities Store in tightly closed original packages or appropriately labeled alternate vessels. Store in dry, bunded areas. Keep away from direct sunlight and heat sources. Protect from freezing. Keep away from food and drinks. Keep away from acids and heavy metals. Keep out of the reach of children. Recommended storage temperature: 4°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls No special engineering controls are required when working with this kit. Use with adequate ventilation.

Protective Equipment Safety glasses are recommended to prevent eye contact. Chemical resistant gloves and a lab coat should be worn to prevent skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Hydrochloric Acid
Appearance:	Solid, white
pH:	0.1
Water Solubility:	No data available
Other Solubility:	No data available
Boiling Point (°C):	100°C
Melting Point (°C):	0°C
Flash Point (°C):	No data available
Ignition Temperature (°C):	No data available
Density:	No data available

SECTION 10: STABILITY AND REACTIVITY

Property	Hydrochloric Acid
Chemical stability:	Mixture is chemically stable under normal conditions of storage and manipulation. Overheating may cause thermal decomposition.

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Conditions to avoid:	Stable under normal conditions. Keep away from direct sunlight and heat sources. Do not mix with strong acids and heavy metals.
Materials to avoid:	Strong acids, heavy metals, halogenated hydrocarbons.
Hazardous decomposition products:	Material does not decompose at ambient temperatures. Incomplete combustion and thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, sooth, aldehydes and other products of organic compounds decomposition, sulfur / nitrogen oxides).

SECTION 11: TOXICOLOGICAL INFORMATION

Hydrochloric Acid:

Acute toxicity Based on available data, the classification criteria are not met. Based on composition, the mixture has low acute toxicity and no adverse effects for human health are expected under applicable conditions of exposure sodium azide.

Skin corrosion/irritation Based on available data, the classification criteria are not met. Prolonged or repeated skin contact may cause mild irritation and dermatitis (skin inflammation). However, these effects do not required classification

Serious eye damage/irritation Based on available data, the classification criteria are not met. Direct contact with eyes may cause slight and temporary irritation. However, these effects do not required classification

Respiratory or skin sensitization Based on available data, the classification criteria are not met. Compounds have no sensitization effects.

Germ cell mutagenicity Based on available data, the classification criteria are not met. Compounds have no potential for mutagenic activity.

Carcinogenicity Based on available data, the classification criteria are not met. Compounds have no potential for carcinogenic activity.

Reproductive toxicity Based on available data, the classification criteria are not met. Compounds have no potential for reproductive toxicity.

STOT-single exposure Based on available data, the classification criteria are not met

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Hydrochloric Acid:

Toxicity No data available.

Persistence and degradability No data available.

Bio accumulative potential No data available.

Mobility in soil No data available.

Results of PBT and vPvB assessment The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII (content <0,1% w/w); the substances in the mixture are not included in the Candidate List of SVHC.

Other adverse effects No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Product: Waste should be disposed of in accordance with federal, state and local environmental control regulations. Must not be composed together with household garbage.

Uncleaned packaging: Waste should be disposed of in accordance with federal, state and local environmental control regulations. Must not be composed together with household garbage.

General notes: Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

SECTION 14: TRANSPORT INFORMATION

Hydrochloric Acid:

DOT (US): Not dangerous goods

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

Hydrochloric Acid

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.


SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know Components: No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components:  WARNING: This product can expose you to chemicals including TMB, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

EU regulations

Component	Risk Phrases	Safety Phrases
Hydrochloric Acid	R35	S26, S30, S45

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SECTION 16: OTHER INFORMATION:

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.