

MATERIAL SAFETY DATA SHEET

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name:	Human IL-6 (Interleukin 6) ELISPOT Kit		
Catalog Number:	ESP-H0009		
Application	For research use only		

SECTION2 HAZARDS IDENTIFICATION

Component Items	Physical form	Hazardous Ingredient	Concentration	CAS No.
Biotinylated Detection Ab	Odorless and colorless, liquid	Proclin 300	0.04%	55965-84-9
Assay diluent	Odorless and colorless, liquid	Proclin 300	0.04%	55965-84-9
ALP Conjugate	Odorless and colorless, liquid	Proclin 300	0.04%	55965-84-9
Substrate	Odorless and faint yellow, liquid	5-bromo-4-chloro-3-indolyl phosphate(BCIP)	0.08%	6578-06-9
		Nitro blue tetrazolium chloride(NBT)	0.04%	298-83-9

2.1 HAZARD STATEMENT

Classification according to GHS

Signal Word: WARNING



Danger symbol:

2.1.1 Proclin 300

H317: May cause an allergic skin reaction.

2.1.2 5-bromo-4-chloro-3-indolyl phosphate(BCIP)

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

2.1.3 Nitro blue tetrazolium chloride(NBT)

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

For Research Use Only

8th Edition, revised in Nov, 2024

Elabscience Bionovation



⊕ www.elabscience.com

techsupport@elabscience.com

2.2 PRECAUTION STATEMENT

Classification according to GHS

2.2.1 Proclin 300

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P333+313: If skin irritation or rash occurs: Get medical advice/attention.

2.2.2 5-bromo-4-chloro-3-indolyl phosphate(BCIP)

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves and protective clothing.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2.3 Nitro blue tetrazolium chloride(NBT)

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338: IF in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



SECTION3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Percent	CAS No.	EC No.
Sodium chloride	0.8%	7647-14-5	231-598-3
Potassium chloride	0.02%	7447-40-7	231-211-8
Disodium phosphate dodecahydrate	0.12%	10039-32-4	231-448-7
Potassium dihydrogen phosphate	0.02%	7778-77-0	231-913-4
Tris	1%	77-86-1	201-064-4
EDTA	0.1%	60-00-4	200-449-4
Glycerol	5%	56-81-5	200-289-5
Tween20	0.5%	9005-64-5	500-018-3
Protective protein	1%	9048-46-8	232-936-2
Luminol	0.1%	521-31-3	208-309-4
Mannitol	2%	69-65-8	200-711-8
PVP40	0.35%	9003-39-8	
Proclin 300	0.04%	55965-84-9	
5-bromo-4-chloro-3-indolyl phosphate(BCIP)	0.08%	6578-06-9	229-506-1
Nitro blue tetrazolium chloride(NBT)	0.04%	298-83-9	206-067-4
Water	88.75%	7732-18-5	231-791-2

SECTION4 FIRST-AID MEASURES

Classification according to GHS

4.1 General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

4.2 If inhaled

If breathed in, move person into fresh air.If not breathing, give artificial respiration. Consult a physician.

4.3 In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

4.4 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.5 If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



SECTIONS FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Suitable: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide or appropriate foam.

For small fires, use media such as "alcohol" foam, dry chemical or carbon dioxide.

For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special precautions for fire-fighters

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eves.

5.3 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.

SECTION6 ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Measures for environmental protection

Prevent further leakage or spillage if safe to do so. Do not let enter drains. Discharge into the environment must be avoided.

6.3 Measures for containment and cleaning

Contain spillage, and then collect with non-combustible absorbent material (eg. sand, diatomaceous earth, vermiculite). Place in a container for disposal according to local regulations. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION7 HANDLING AND STORAGE

7.1 Handling

Wear appropriate protective clothing and safety gloves.

Avoid inhalation.

Avoid contact with eyes, skin and clothing.

Mechanical exhaust required.

Keep away from ignition sources, heat and flame.

No smoking at working site.

Incompatibilities: Strong oxidizing agents, Strong acids. Handling and unloading should be light, to prevent packaging broken, damp and cause losses.

Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.



⊕ www.elabscience.com

techsupport@elabscience.com

7.2 Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Keep away from heat, sparks and flame.

Keep away from sources of ignition.

Incompatible: Strong oxidizing agents, Strong acids.

Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION8 EXPOSURE CONTROL/PPE

8.1 Engineering Controls

Mechanical exhaust required. Safety shower and eye bath.

8.2 Personal Protective Equipment

Respiratory: Government approved respirator if needed.

Eye/face: Chemical safety goggles if needed. Clothing: Wear appropriate protective clothing.

Hand/skin: Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Wear suitable protective clothing according to the concentration and amount of the substance at the workplace.

8.3 Other Protect

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMIICAL PROPERTIES

9.1 Proclin 300

Appearance: Liquid

Odour: No data available

Odour threshold: No data available

pH 4.1 at 100 g/L

Melting point/freezing point: -40 °C

Initial boiling point and boiling range: 189 °C

Flash point: 118 °C - closed cup Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available Vapour density: No data available Relative density: 1.03 g/cm³ Water solubility: Soluble

Partition coefficient: noctanol/water: No data available

Elabscience Bionovation

Elabscience®

⊕ www.elabscience.com

techsupport@elabscience.com

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available Oxidizing properties: No data available

9.2 5-bromo-4-chloro-3-indolyl phosphate(BCIP)

Appearance: White to slightly yellowish microcrystalline powder

Odour: No data available

Odour threshold: No data available

pH: No data available

Melting point/freezing point: 194-195° C

Initial boiling point and boiling range: No data available

Flash point: 581°F/305°C

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available Vapour density: No data available Relative density: No data available Water solubility: No data available

Partition coefficient: noctanol/water: No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available Oxidizing properties: No data available

Other safety information: Bulk density 0.50 g/LUpper/lower flammability or explosive limits: No data available

9.3 Nitro blue tetrazolium chloride(NBT)

Appearance: solid, Light yellow to yellow

Odour: No data available

Odour threshold: No data available

Ph: No data available

Melting point/freezing point: -189°C

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available Vapour density: No data available Relative density: No data available

Water solubility: Soluble in water, methanol and ethanol, slightly soluble in ethyl acetate, insoluble in ether.

Partition coefficient: noctanol/water: No data available

Auto-ignition temperature: No data available



Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available Oxidizing properties: No data available

SECTION10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents, Light sensitive, Alcohols, Organic materials, Heavy metals, Powdered metals, Strong reducing agents, Amines, Mercaptans.

10.6 Hazardous decomposition products

Other decomposition products: No data available.

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides, phosphorus oxides, hydrogen chloride gas, hydrogen bromide and other decomposition products

SECTION11 TOXICOLOGICAL INFORMATION

11.1 Proclin 300

Acute toxicity

LD₅₀ Oral - Rat - 862 mg/kg

LD₅₀ Dermal - Rabbit - 2,800 mg/kg

Skin corrosion/irritation

Skin - Rabbit Result: Corrosive Serious eye damage/eye irritation

Eyes - Rabbit Result: Corrosive to eyes

Respiratory or skin sensitisation - Guinea pig Result: May cause sensitisation by skin contact.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

11.2 5-bromo-4-chloro-3-indolyl phosphate(BCIP)

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity

For Research Use Only

8th Edition, revised in Nov, 2024

Elabscience Bionovation



⊕ www.elabscience.com

techsupport@elabscience.com

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

11.3 Nitro blue tetrazolium chloride(NBT)

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

SECTION12 ECOLOGICAL INFORMATION

12.1 Proclin 300

Ecotoxicity

No data available.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

12.2 5-bromo-4-chloro-3-indolyl phosphate(BCIP)

Ecotoxicity

No data available.

Persistence and degradability



⊕ www.elabscience.com
□ techsupport@elabscience.com

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

12.3 Nitro blue tetrazolium chloride(NBT)

Ecotoxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13 DISPOSAL CONSIDERATION

13.1 Disposal methods

Dispose of waste in accordance to applicable national, regional, or local regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

Dispose in the same manner as unused product.

SECTION 14 TRANSPORT INFORMATION

RID/ADR: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-Hazardous for Air Transport. **IMO:** Non-Hazardous for Sea Transport.

SECTION15 REGULATORY INFORMATION

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.



SECTION 16 OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.