

# SAFETY DATA SHEET

SDS DATE: January 25, 2021



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ubch5b, human recombinant (His-tag)  
**PRODUCT CODES:** Cat# 4852-10, -100  
**RESTRICTIONS ON USE:** For laboratory research purposes. Not for drug or household use.  
**MANUFACTURER:** BioVision, Inc.  
**ADDRESS:** 155 S. Milpitas Boulevard, Milpitas, CA 95035  
**EMERGENCY PHONE:** 858-373-8066  
**OTHER CALLS:** 408-493-1800  
**FAX PHONE:** 408-493-1801

## SECTION 2: HAZARDS IDENTIFICATION

| Component                           | Description           | Volume                             | Safety Information |
|-------------------------------------|-----------------------|------------------------------------|--------------------|
| Ubch5b, human recombinant (His-tag) | Liquid (contains DTT) | 4852-10: 10 µg<br>4852-100: 100 µg | See Below          |

### DTT:

#### Emergency Overview

**OSHA Hazards:** Target Organ Effect, Toxic by ingestion, Irritant

**Target Organs:** Central nervous system

#### GHS Classification:

Acute toxicity, Oral (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2A)

#### GHS Label elements, including precautionary statements



#### Pictogram:

#### Signal word:

Warning

#### Hazard statement(s):

H303 May be harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

**Precautionary statement(s):** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### HMIS Classification

Health hazard: 2

Chronic Health Hazard: \*

Flammability: 0

Physical hazards: 0

#### NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Toxic if swallowed.

**Eyes:** Causes eye irritation.

**Ingestion:** Toxic if swallowed.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | EC-No.    | Molecular Weight | Chemical Formula   | Concentration |
|-----------|------------|-----------|------------------|--|---------------|
| DTT       | 3483-12-3  | 222-468-7 | 154.25           | C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> S <sub>2</sub> | <0.1%         |

## SECTION 4: FIRST AID MEASURES

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**DTT:**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**DTT:**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions— carbon oxides, sulfur oxides, hydrogen sulfide gas.

**Conditions of flammability:** Not flammable or combustible.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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## SECTION 7: HANDLING AND STORAGE

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**Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: -20 °C. Air sensitive. Store under inert gas.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**DTT:**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique 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.

**Eye protection:** Chemical safety goggles

**Hygiene measures:** General industrial hygiene practice.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Property                   | DTT               |
|----------------------------|-------------------|
| Appearance:                | Clear liquid      |
| pH:                        | 3.0-5.0           |
| Water Solubility:          | High              |
| Other Solubility:          | No data available |
| Boiling Point (°C):        | No data available |
| Melting Point (°C):        | No data available |
| Flash Point (°C):          | No data available |
| Ignition Temperature (°C): | No data available |
| Density                    | No data available |

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## SECTION 10: STABILITY AND REACTIVITY

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| Property                          | DTT   |
|-----------------------------------|---|
| Chemical stability                | Stable under recommended storage conditions             |
| Conditions to avoid:              | No data available                                       |
| Materials to avoid:               | Bases, Oxidizing agents, Reducing agents, Alkali metals |
| Hazardous decomposition products: | Carbon oxides, sulfur oxides, hydrogen sulfide gas      |

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## SECTION 11: TOXICOLOGICAL INFORMATION

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## DTT

**Acute toxicity:** no data available

**Irritation and corrosion:** no data available

**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 levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

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

**Reproductive toxicity:** no data available

### **Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Toxic if swallowed.

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## SECTION 12: ECOLOGICAL INFORMATION

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### DTT

**Elimination information (persistence and degradability):** no data available

**Ecotoxicity effects:** no data available

**Further information on ecology:** no data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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### DTT

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

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## SECTION 15: REGULATORY INFORMATION

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**SARA 302 Components:** SARA 302: No chemicals 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 III, Section 313.

**SARA 311/312 Hazards:** DTT: Acute Health Hazard, Chronic Health Hazard

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

**Pennsylvania Right To Know Components:** DTT CAS-No. 3483-12-3

**New Jersey Right To Know Components:** DTT CAS-No. 3483-12-3

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**EU regulations:** This product is not classified according to the EU regulations.

| Component | Risk Phrases | Safety Phrases |
|-----------|--------------|----------------|
| DTT       | R20/21/22    | S60            |

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## SECTION 16: OTHER INFORMATION

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### **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.