

# Material Safety Data Sheet

## 1. Product and Company Identification

**Product Name:** CD137[Biotinylated]:CD137L Inhibitor Screening Assay Kit **Catalog #:** 72025

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural applications.

## 2. Hazardous Identification

### GHS – Classification

Signal Word – not hazardous

Health Hazard – not hazardous

Physical Hazards – not hazardous

### Potential Exposure/Health Effects

Eyes May cause eye irritation with susceptible persons

Skin May cause skin irritation in susceptible persons

Inhalation May be harmful by inhalation

Ingestion May be harmful if swallowed

### Specific Effects

Carcinogenic effects none

Mutagenic effects none

Reproductive toxicity none

Sensitization none

Target Organ Effects no known effects under normal use conditions

### HMIS

Health	0
Flammability	0
Reactivity	0

## 3. Composition, Information on Ingredients

CD137 (4-1BB), His-tagged, Biotin-labeled: This product consists of highly purified, synthetically produced protein in Tris-HCl buffer. No azide or thimerosol is present. The physical properties of this product have not been investigated thoroughly.

CD137L (4-1BB ligand), His tagged: This product consists of DMSO solution (78021-1). The physical properties of this product have not been investigated thoroughly.

Streptavidin-HRP: This product consists of aqueous buffer solution. No azide or thimerosol is present. The physical properties of this product have not been investigated thoroughly.

3x Immuno Buffer 1: This product consists of aqueous buffer solution. No azide or thimerosol is present. The physical properties of this product have not been investigated thoroughly.

AMSBIO | [www.amsbio.com](http://www.amsbio.com) | [info@amsbio.com](mailto:info@amsbio.com)

UK & Rest of the World   
184 Park Drive, Milton Park  
Abingdon OX14 4SE.  
T: +44 (0) 1235 828 200  
F: +44 (0) 1235 820 482

North America   
1035 Cambridge Street,  
Cambridge, MA 02141.  
T: +1 (617) 945-5033 or  
T: +1 (800) 987-0985  
F: +1 (617) 945-8218

Europe   
Berenkoog 41,  
1822 BH Alkmaar,  
Netherlands  
T: +31 (0)728080244  
F: +31(0)728080142

Switzerland   
Via Lisano 3,  
(CP.683)  
CH-6900  
T: +41 (0) 91 604 55 22  
F: +41 (0) 91 605 17 85

Germany   
Bockenheimer Landstr. 17/19  
60325 Frankfurt/Main  
T: +49 (0) 69 779099  
F: +49 (0) 69 13376880

**Blocking Buffer 2:** This product consists of aqueous buffer solution. No azide or thimerosal is present. The physical properties of this product have not been investigated thoroughly.

**ELISA ECL substrate A (transparent bottle):** This product consists of aqueous buffer solution. No azide or thimerosal is present. The physical properties of this product have not been investigated thoroughly.

**ELISA ECL substrate B (brown bottle):** This product consists of aqueous buffer solution. No azide or thimerosal is present. The physical properties of this product have not been investigated thoroughly

#### **4. First Aid Measures**

<b>Skin contact</b>	Rinse with plenty of water. If symptoms arise, call a physician
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration
<b>Notes to physician</b>	Treat symptomatically.

#### **5. Fire Fighting Measures**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.  
**Special protective equipment for firefighters** Wear self-contained breathing apparatus and protective suit.

#### **6. Accidental Release Measures**

Use personal protective equipment. To clean, soak up with inert absorbent material.  
**Environmental precautions** – Prevent further leakage or spillage if safe to do so.

See section 12 for additional information.

#### **7. Handling and Storage**

**Handling** Always wear recommended Personal Protective Equipment. No special handling advice is required.  
**Storage** Keep in a dry, cool and well-ventilated place.

#### **8. Exposure Controls, Personal Protection**

**Exposure limits** No information available  
**Engineering measures** Ensure adequate ventilation, especially in confined areas.  
**Personal protective equipment (PPE)**

PPE requirements depend on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.  
**Hand protection** Impervious gloves.  
**Eye protection** Safety glasses with side shields.  
**Skin and body protection** Lightweight protective clothing.  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains.

#### **9. Physical and Chemical Properties**

**General Information**

<b>Form</b>	Liquid
<b>Appearance</b>	No information available
<b>Odor</b>	No information available
<b>Boiling point/range</b>	No data available
<b>Melting point/range</b>	No data available
<b>Flash point</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Oxidizing properties</b>	No information available
<b>Water solubility</b>	Soluble
<b>pH value</b>	~8

**10. Stability and Reactivity**

<b>Stability</b>	Stable under normal conditions
<b>Materials to avoid</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	None under normal use
<b>Polymerization</b>	Hazardous polymerization does not occur.

**11. Toxicological Information**

The toxicological impacts of this product have not been investigated thoroughly. No known effects are known under normal use conditions. We recommend handling all chemicals with caution.

**Potential Exposure/Health Effects**

Eyes	May cause eye irritation with susceptible persons
Skin	May cause skin irritation in susceptible persons
Inhalation	May be harmful by inhalation
Ingestion	May be harmful if swallowed

**Specific Effects**

Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none
Target Organ Effects	– no known effects under normal use conditions

**12. Ecological Information**

Ecological information for this product has not been investigated thoroughly. We recommend handling all chemicals with caution.

**13. Disposal Considerations**

Dispose of in accordance with local regulations.

**14. Transport Information****IATA**

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	None
Subsidiary Class	None
Packing group	None
UN-No	None

commodity code : 3822000002

## 15. Regulatory Information

### U.S. Federal Regulations

**SARA 313** not regulated by SARA

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)** product does not contain HAPs.

### U.S. State Regulations

**California Prop 65** product does not contain chemicals listed under Proposition 65.

### WHMIS Hazard Class

Non-controlled

Product is for in vitro research purposes only. Not intended for use in human or animals.

## 16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Date prepared:** 12-01-2021

**Revision #:** 1

**Prepared By:** Henry Zhu

**Phone #:** 1-858-829-3082

AMSBIO | [www.amsbio.com](http://www.amsbio.com) | [info@amsbio.com](mailto:info@amsbio.com)

UK & Rest of the World   
184 Park Drive, Milton Park  
Abingdon OX14 4SE.  
T: +44 (0) 1235 828 200  
F: +44 (0) 1235 820 482

North America   
1035 Cambridge Street,  
Cambridge, MA 02141.  
T: +1 (617) 945-5033 or  
T: +1 (800) 987-0985  
F: +1 (617) 945-8218

Europe   
Berenkoog 41,  
1822 BH Alkmaar,  
Netherlands  
T: +31 (0)728080244  
F: +31 (0)728080142

Switzerland   
Via Lisano 3,  
(CP.683)  
CH-6900  
T: +41 (0) 91 604 55 22  
F: +41 (0) 91 605 17 85

Germany   
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T: +49 (0) 69 779099  
F: +49 (0) 69 13376880