

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: SARS-CoV-2 (B.1.1.529/Omicron) Spike Glycoprotein (S1) RBD, His-Tag (HEK293):  
Biotin Conjugate  
IUPAC name: -  
Product Number: REC32007-Biotin-100 / REC32007-Biotin-500  
CAS number:

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### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Recombinant SARS-CoV-2 Omicron variant Spike receptor binding domain protein. Relative to Wuhan-Hu-1 this protein has following amino acid changes: G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H. Protein is biotinylated.

Sample is of biological origin and is presented as a liquid in a plastic vial. Each vial contains no more than 1000µg.

Additional components present: PBS+20mM Tris, 1%BSA, trace amounts of ANS and CaCl<sub>2</sub> and 0.1% Proclin 950.

Contains ProClin 300 / ProClin 950

Chemical name: ProClin 300 (55965-84-9), ProClin 950

Symbol(s) Xi – Irritant

Proclin 300; Cas 2682-20-4; H314; H317; H411; H332; H312; H302; </=1.25%



Proclin 950; H314; H317; H400 <0.2%

R-phrase(s)

- R43 - May cause sensitization by skin contact
- R36/38 - Irritating to eyes and skin
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrase(s)

- S24/25 - Avoid contact with skin and eyes
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
- S61 - Avoid release to the environment

#### 4. FIRST AID MEASURES

- If inhaled:** Remove person to fresh air, seek medical advice if breathing becomes difficult.
- In case of skin contact:** Wash off with soap and water.
- In case of eye contact:** Rinse at eyewash station.
- If swallowed:** No treatment required.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

None required.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Avoid direct contact with the product. Wear a laboratory coat, protective glasses and gloves.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and materials for containment and cleaning up**

Pick up using absorbent tissue and arrange for safe disposal. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Avoid contact with skin and eyes.

**Conditions for safe storage**



Recommended storage temperature:

Short term: -80°C.

Long-term: -80°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Proclin 300

Long-term exposure limit (8-hour TWA): WEL 0,2 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 0,4 mg/m<sup>3</sup>

Sk

### Proclin 950

Does not have occupational exposure limit values.

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin

### Personal protective equipment

#### Respiratory protection

None necessary.

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

#### Eye protection

Safety glasses if desired

#### Skin and body protection

Laboratory coat

#### Hygiene measures

Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Colourless liquid

### Safety data

pH:	7.4
Melting point:	no data available
Boiling point:	no data available
Flash point:	no data available
Ignition temperature:	no data available
Lower explosion limit:	no data available



Upper explosion limit: no data available  
Water solubility: soluble

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

Avoid multiple freeze thaw cycles

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

None known

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ProClin 300	53 mg/kg (Rat) 481 mg/kg (Rat)	1008 mg/kg (Rat)	1.23 mg/L (Rat) 4 h
ProClin 950	No data available	No data available	No data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

Proclin 300/ProClin 950 at levels greater than or equal to 0.1% is not identified as probable, possible or a confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

### Aspiration hazard

no data available

### Potential health effects



<b>Inhalation</b>	Avoid breathing aerosols
<b>Ingestion</b>	Harmful if swallowed
<b>Skin</b>	May cause sensitization by skin contact
<b>Eyes</b>	Irritating to eyes and skin

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Additional Information

## 12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Toxicity

No data available

### Persistence and degradability

Degrades easily

### Bioaccumulative potential

Low

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Can be disposed of down sink.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

Not dangerous goods, no transport limitations.

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 16. OTHER INFORMATION

None



**Last updated:** 26/01/2022

**Prepared by:** The Native Antigen Company

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