

## SAFETY DATA SHEET

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

Product Name: SARS-CoV-2 (B.1.1.529/Omicron) Stabilized Spike Glycoprotein (Trimeric), His-Strep-Tag (HEK293): Biotin Conjugate  
IUPAC name: -  
Product Number: REC32008-Biotin-100 / REC32008-Biotin-500  
CAS number:

Company: The Native Antigen Company Ltd.  
Building B  
Langford Locks  
Kidlington  
Oxfordshire  
OX5 1LH  
[Tel+44 \(0\)1865 595230](tel:+441865595230)

E-mail address: [NAC.Contact@LGCGroup.com](mailto:NAC.Contact@LGCGroup.com)

### 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 protein. Relative to Wuhan-Hu-1 the protein has following amino acid changes: A67V, H69del, V70del, T95I, G142D, V143del, Y144del, Y145del, N211del, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H, N764K, D796Y, N856K, Q954H, N969K, L981F. The furin cleavage site has been altered to GSAS, and the protein has 6 amino acid changes in the S2 portion to stabilize trimer formation, commonly known as HexaPro. The C-terminus contains a T4 foldon domain. 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; <math>\leq 1.25\%</math>

Proclin 950; H314; H317; H400 <math>< 0.2\%</math>

R-phrases)

- 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

Although the information, opinions and recommendations contained in this Safety Data Sheet are compiled from sources believed to be reliable, we accept no responsibility for the accuracy, sufficiency, or reliability or for any loss or injury resulting from the use of the information.