

# 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: CAS number:	REC32007-Biotin-100 / REC32007-Biotin-500
Company:	The Native Antigen Company Ltd.
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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.

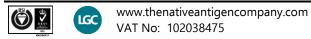
# 3. COMPOSITION/INFORMATION ON INGREDIENTS

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 CaCl2 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%



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# 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**

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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



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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



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Inhalation	Avoid breathing aerosols
Ingestion	Harmful if swallowed
Skin	May cause sensitization by skin contact
Eyes	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

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# **Prepared by:** The Native Antigen Company

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