

# SAFETY DATA SHEET

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

Product Name: IUPAC name: Product Number: CAS number:	SARS-CoV-2 Spike Glycoprotein (S1) RBD, His-Tag (HEK293): Biotin Conjugate - REC31882-Biotin-100
Company:	The Native Antigen Company Ltd. Building B Langford Locks Kidlington Oxfordshire OX5 1LH <u>Tel+44</u> (0)1865 595230

E-mail address:

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

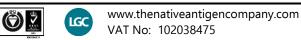
SARS-CoV-2 Spike protein receptor binding domain (RBD) produced in HEK293 cells. The protein was purified from culture supernatant by immobilised metal affinity chromatography and conjugated to biotin. Sample is of biological origin and is presented as a liquid in a plastic vial. Each vial contains no 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% Proclin 950; H314; H317; H400 <0.2%

R-phrase(s)

• R43 - May cause sensitization by skin contact



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- 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 bre	athing becomes difficult.

In case of skin contact:	Wash off with soap and water.
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- 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.



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# 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**



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# **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**

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

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#### 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

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Langford Locks Kidlington Oxfordshire OX5 1LH Telephone: +44(0)1865 595230

# Prepared by: The Native Antigen Company

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