

## SAFETY DATA SHEET

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

Product Name: SARS-CoV-2 (B.1.1.28: K417T, E484K, N501Y) Spike Glycoprotein (S1) RBD, His-Tag (HEK293): Biotin Conjugate  
IUPAC name: -  
Product Number: REC31961-Biotin  
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

SARS-CoV-2 Spike protein receptor binding domain of the Brazilian variant of concern. Relative to Wuhan-Hu-1 contains following amino acid changes: K417T, E484K, N501Y. Protein is 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: DPBS.

### 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

Wear 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

Contains no substances with occupational exposure limit values.

### 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**

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**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	None
<b>Ingestion</b>	None
<b>Skin</b>	None
<b>Eyes</b>	May cause eye irritation.

**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****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:** 11/10/2021

**Prepared by:** The Native Antigen Company

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