

## SAFETY DATA SHEET

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

Product Name: SARS-CoV-2 Neutralization Assay Development Kit (Brazilian Variant RBD-ACE2)  
IUPAC name: -  
Product Number: NTRL-BZ-RBD-10  
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

1. REC31961-NTRL-150: SARS-CoV-2 (B.1.1.28) Spike protein receptor binding domain (RBD) produced in HEK293 cells. The protein was purified from culture supernatant by immobilised metal affinity chromatography
2. REC31876-NTRL-10.5: Human ACE2 was produced in HEK293 cells by transient transfection. The protein was C-terminally truncated to remove both the ADAM17 and TMPRSS2 cleavage sites. The protein was then purified from culture supernatant by Protein G chromatography and conjugated to horseradish peroxidase (HRP).

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

Additional components present: DPBS, 1% BSA, Proclin.



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-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-phrases

- 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

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: -20°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:** 20/04/2021

**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.