

SAFETY DATA SHEET

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

Product Name: SARS-CoV-2 Neutralization Assay Development Kit (United Kingdom Variant RBD-ACE2)
IUPAC name: -
Product Number: NTRL-UK-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

- REC31946-NTRL-150: SARS-CoV-2 (B.1.1.7) Spike protein receptor binding domain (RBD) produced in HEK293 cells. The protein was purified from culture supernatant by immobilised metal affinity chromatography
- 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(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

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/m³

Short-term exposure limit (15-minute): WEL 0,4 mg/m³

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

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

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.