SAFETY DATA SHEET

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

Product name: Borrelia Miyamotoi GlpQ Protein, His-Tag
IUPAC name: -
Product number: REC31765-100 / REC31765-500
CAS number:
Company: The Native Antigen Company
Building B
Langford Locks
Kidlington
Oxfordshire
OX5 1LH
Tel+44 (0)1865 595230
E-mail address: contact@thenativeantigencompany.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

Recombinant full length Borrelia miyamotoi GlpQ (NCBI: WP_025443886.1) protein produced in E. coli
cells. Protein contains a C-terminal 10x His-tag. The protein was purified using immobilised metal affinity
chromatography and ion exchange chromatography. Sample is of biological origin and is presented as a
liquid in a plastic vial. Each vial contains no more than 1000 g.

Additional components present: 300 mM NaCl, 50 mM Tris-HCl, pH 8.5.

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: -20 to -80 °C for long term.

8. **EXPOSURE CONTROLS/PERSOANL 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: 8.5
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
Inhalation None
Ingestion None
Skin None
Eyes 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
Degradation 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: 17/02/2020

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.