



Product name VEDOLIZUMAB
Labelled standard



Catalog number ENZ10211

Product description

Labelled Vedolizumab is a recombinant, stable isotope labelled monoclonal IgG1-Kappa antibody designed for use as an internal standard for quantitative analysis of Vedolizumab in plasma samples. Vedolizumab targets lymphocyte $\alpha 4\beta 7$ integrin and is used to treat ulcerative colitis and Crohn's disease.

mAb sequence

Heavy Chain

QVQLVQSGAEVKKPGASVKVSKCKGSGYFTFSYWMHWVRQAPGQRLEWIGEIDPSESNTNYNQKFKGRVTLTVDISASTAYMELSSLRSED TAVYYCARGGYDGWDYAIDYWGQGLTVTVSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSVHTFPAVLQS SGLYLSVVVTPSSSLGTQTYICNVNHKPSNTKVDKKEPEKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKLSLSLSPGK

Light Chain

DVVMTQSPSLPVTPEPASPISCRSSQSLAKSYGNTYLSWYLQKPGQSPQLLIYGISNRFSGVPDRFSGSGSGTDFTLKISRVEAEDVGVVYCLQGTHQPYTFGGQTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

Product features and protocols

Key features

- 1** Purity >95%
as determined by SDS-PAGE
- 2** Labelling Arg-¹³C₆, ¹⁵N₄ | Lys-¹³C₆, ¹⁵N₂
- 3** Isotopic incorporation >98%
as determined by LC-MS/MS analysis of digested SIL-mAb

Other features

Expression System	CHO cells
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	5 mM Histidine-HCl pH 6.0 60 mM Trehalose 0.01% Polysorbate 20

Product preparation

We recommend the following steps:

- Briefly centrifuge the tube before opening
- Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 µg/ml (e.g. 50 µl for 10 µg or 250 µl for 50 µg)
- Vortex gently to insure complete dissolution
- Wait 15 minutes at room temperature before proceeding further
- Vortex gently again and centrifuge briefly

Product storage

The product is lyophilized and shipped at ambient temperature. Store at -80 °C upon receipt. After reconstitution, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles

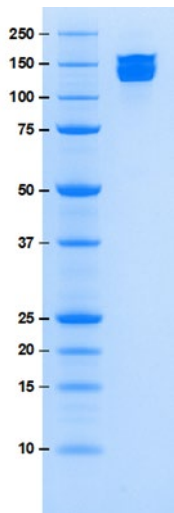
How to use our product



SIL mAbs are used as an internal standards by addition at the start of a sample preparation workflow. Both Labeled and target therapeutic mAbs will be processed throughout the entire analytical procedure controlling for variability caused by pre-analytical treatments or incomplete enzymatic digestion (1).



Supporting information



SDS-PAGE gel analysis of VEDOLIZUMAB protein in non-reducing/ non heated conditions (NR/NH) Stained with Coomassie blue

References

1. D. Lebert, G.Picard, et al. Absolute and multiplex quantification of antibodies in serum using PSAQ™ standards and LC-MS/MS, Bioanalysis. 2015, 7, 1237-51.



The product is intended for research use only. Not for diagnostic or therapeutic use.

Legal

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SAFETY DATASHEET

Version: 1

Revision Date: 08JUN2022

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

Product Name: Recombinant Vedolizumab monoclonal antibody

Product Number: ENZ10211

Relevant identified uses of the substance or mixture and uses advised against

This product is for research use only.

This product is not intended for therapeutic use. It should not be administered to humans or animals.

Details of the supplier of the safety data sheet

PROMISE Proteomics SAS

7 parvis Louis Néel, CS20050, Bat52A

38040 Grenoble

FRANCE:

Tel: +33.4.38.02.36.50

Fax: +33.4.38.02.10.38

Email: contact@promise-proteomics.com

Emergency telephone number: +0033.4.38.02.36.50 (8.00am-17.00pm)

Email: reactovigilance@promise-proteomics.com

2. HAZARDS IDENTIFICATION

Classification of the substance

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Other information

None

3. COMPOSITION/INFORMATION OF INGREDIENTS

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

Description of first aid measures

- Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
- Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
- Ingestion: Clean mouth with water. Drink plenty of water.
- Inhalation: Move to fresh air.

Most important symptoms and effects, both acute and delayed

No information available

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

None in particular.

Advice for fire-fighters

Special protective equipment for fire-fighters As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Precautions of safe handling

Ensure adequate ventilation.

Conditions of safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end uses

No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits: National occupational exposure limits

Derived No Effect Level: No information available

Predicted No Effect Concentration: No information available

Exposure controls:

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection Tightly fitting safety goggles.

Hand protection Protective gloves.

Skin and body protection Long sleeved clothing.

Respiratory protection No special protective equipment required.

Thermal hazards No information available

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls : No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State @20°C: No information available

Odor: No information available

Appearance: no information available

pH: No information available

Melting/freezing point: No information available

Boiling point/boiling range: No information available

Flash point: No information available

Evaporation rate: No information available

Flammability (solid,gas): No information available

Vapor pressure: No information available

Vapor density: No information available

Relative density: No information available

Water solubility: No information available

Solubility in other solvents: No information available

Partition coefficient : n-octanol/water: No information available

Autoignition temperature: No information available

Decomposition temperature: No information available

Viscosity, kinematic: No information available

Explosive properties: No information available

VOC content (%): No information available

10. STABILITY AND REACTIVITY

Reactivity: No information available

Chemical stability: Stable under normal conditions

Precautional Statements: None under normal processing

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: None in particular

Hazardous decomposition products: None under normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Product information: No data available

Inhalation: No data available

Eye contact: No data available

Skin contact: No data available

Ingestion: No data available

Chronic toxicity

Corrositivity: No information available

Sensitization: No information available

Neurological effects: No information available

Reproductive toxicity: No information available

Mutagenic effects: No information available

Target Organ effects: No information available

12. ECOLOGICAL INFORMATION

Toxicity: As supplied, the preparation is not expected to present significant adverse environmental effects.

Persistence and degradability: No information available

Bioaccumulative potential: No information available
Mobility in soil: No information available
Results of PBT and vPvB assessment: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Dispose of in accordance with local regulations.
Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Not dangerous goods

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

16. OTHER INFORMATION

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty of quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or any in process, unless specified in the text.