



**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 TAVYYCARGGYDGWDYAIIDYWGQGLTVTVSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSVHTFPAVLQS SGLYLSVVVTPSSSLGTQTYICNVNHKPSNTKVDKKEPEKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDMLISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKSLSLSPGK

### Light Chain

DVVMTQSPVLPVTPGEPASISCRSSQSLAKSYGNTYLSWYLQKPGQSPQLLIYGISNRFSGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCL QGTHQPYTFGGQTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

## Product features and protocols

### Key features

- 1** Purity >95%  
as determined by SDS-PAGE
- 2** Labelling Arg-<sup>13</sup>C<sub>6</sub>, <sup>15</sup>N<sub>4</sub> | Lys-<sup>13</sup>C<sub>6</sub>, <sup>15</sup>N<sub>2</sub>
- 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

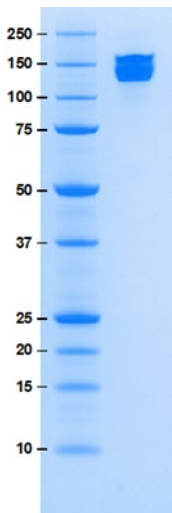
## How to use our product



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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