

## Product description



**Product name** NATALIZUMAB



**Catalog number** TYZ13211

Natalizumab (Tysabri) is a recombinant humanized IgG4κ monoclonal antibody that binds to α4-integrin. Natalizumab is a medication used to treat multiple sclerosis and Crohn's disease.

## mAb sequence

### Heavy chain NATALIZUMAB

QVQLVQSGAEVKKPGASVKVSCKASGFNIKDTYIHWVRQAPGQRLEWMGRIDPANGYTKYDPKFQGRVTITADTSASTAYMELSSLRSEDTA VYVCAREGGYGNYGYYAMDYWGQGLTVTVSSASTKGPSVFLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSQVHTFPAVLQSSGL YSLSSVTVPSSSLGKTYTCNVDPKPSNTKVDKRVESKYGPCPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVDSQEDPEVQFN WYVDGVEVHNAKTKPREEQFNSTYRVVSLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTKAKAGQPREPQVYTLPPSQEEMTKNQVSLTCLV KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCVMHEALHNHYTQKSLSLSLGK

### Light Chain NATALIZUMAB

DIQMTQSPSSLSASVGRVTITCKTSQDINKYMAWYQQTPGKAPRLLIHYTSALQPGIPSRFSGSGSRDYFTFTISSLQPEDATYYCLQYDNLW TFGQGTKEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKSTYLSSTLTLSKADYEKHKV YACEVTHQGLSSPVTKSFNRGEC

## Product features and protocols

### Key features

- 1** Purity >70% 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 cell line
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	Lyophilized 5 mM Histidine pH6 ; 60 mM trehalose ; 0.01% Polysorbate 20.

## Product preparation

For 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

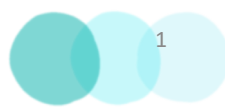
## Product storage

The product is lyophilized and shipped at room 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 allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



## Supporting information



NATALIZUMAB TYZ13211:  
SDS-PAGE gel in non-reducing /  
non heated conditions (NR/NH).  
Stained with Coomassie blue

## References

1. G.Picard, D. Lebert, et al. PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363



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

### Legal

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