

Product description



Product name ALEMTUZUMAB



Catalog number ALZ10131

Alemtuzumab is a monoclonal antibody that binds to CD52, used to treat B-cell chronic lymphocytic leukemia (CLL) and multiple sclerosis.

Similar products: Natalizumab (TYZ13211), Rituximab (RIX08221), Ocrelizumab (OCZ10231)

mAb sequence

Heavy chain Alemtuzumab_HC

QVQLQESGPGLV RPSQTLSTCTVSGFTFTDFYMNWVRQPPGRGLEWIGFIRDKAKGYTTEYNPSVKGRVTMLVDTSKNQFSLRLSSVTAAD
TAVYYCAREGHTAAPFDYWGQGLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPTVSWNSGALTSGVHTFPAVLQSSGLYSL
SSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFN
WYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Light Chain Alemtuzumab_LC

DIQMTQSPSSLSASVGDRVTITCKASQNIQKYLINWYQQKPGKAPKLLIYNTNQLQTVPSRFSGSGSGTDFTFTISSLPEDIATYYCLQHISRP
RTFGQGTQKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHK
VYACEVTHQGLSSPVTKSFNRGEC

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 cell line
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	NaCl 8 mg/mL; NaP dibasic 1.44 mg/mL; KCl 0.2 mg/mL; KP monobasic 0.2 mg/mL; Polysorbate 80 0.1 mg/mL; EDTA 0.0187 mg/mL; pH 7-7.4

Product preparation

- 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.

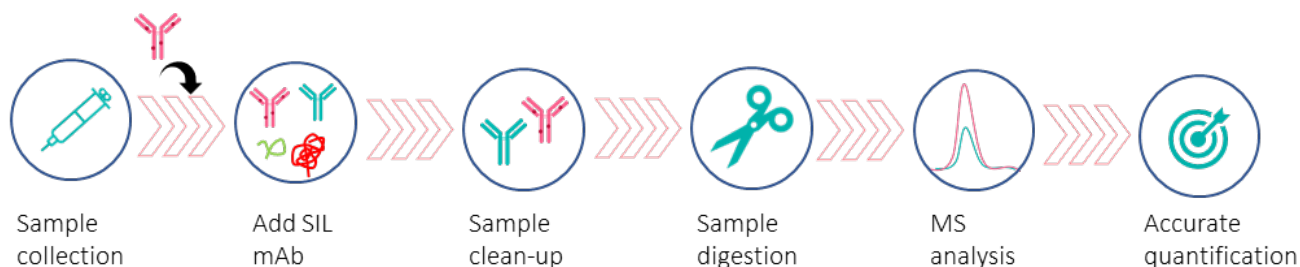
After product preparation, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles

How to use our product



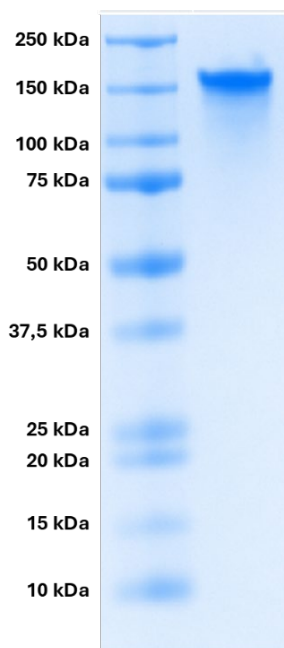
SIL mAbs allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



Supporting information

ALEMTUZUMAB ALZ10131:

SDS-PAGE gel analysis 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.

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