



Product name DUPILUMAB
Labelled standard



Catalog number DUU08301

Product description

Dupilumab: monoclonal antibody blocking interleukin 4 and interleukin 13, used for allergic diseases such as eczema (atopic dermatitis), asthma and nasal polyps which result in chronic sinusitis. Also used for the treatment of eosinophilic esophagitis and prurigo nodularis.

mAb sequence

Heavy chain

EVQLVESGGGLEQPGGSLRLSCAGSGFTFRDYAMTWVRQAPGKGLEWVSSISGSGGNTYYADSVKGRFTISRDNKNTLYLQMNSLRAEDTAVYYCAKDRLSITIRPRYYGLDVWGQTTVTVSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSVHTFPAVLQSSGLYSLSSVTVPSSSLGKTYTCNVDPKPSNTKVDKRVESKYGPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSDQEDPEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTIKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCVMHEALHNHYTQKLSLSLGL

Light Chain

DIVMTQSPSLPVTGEPASISCRSSQSLLYSIGYNYLDWYLQKSGQSPQLLIYLSNRASGVPDRFSGSGSDTFTLKISRVEAEDTGVFYYCMQALQTPYTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYFPREAKVQWKVDNALQSGNSQESVTEQDSKDYSLSSLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC

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	Storage buffer: 5 mM Histidine pH6 ; 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

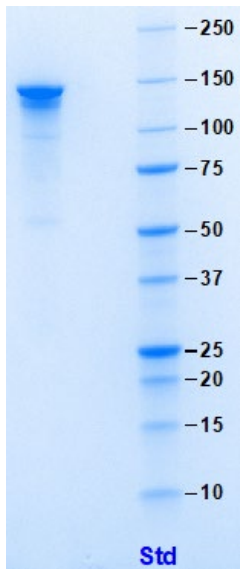
How to use our product



SIL mAbs 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



SDS-PAGE gel analysis of DUPILUMAB protein 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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Promise Proteomics	DATA SHEET DUU08301_V01
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01	03OCT2023	Creation