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Product description

Product name	BUROSUMAB
Catalog number	CRU0551

BUROSUMAB: is a human monoclonal IgG1 anti-human fibroblast growth factor 23 (FGF23). It is used in the treatment of X-linked hypophosphatemia and tumor-induced osteomalacia.

mAb sequence

Heavy chain BUROSUMAB

QVQLVQSGAEVKKPGASVKVSCKASGYTFTNHYMHWVRQAPGQGLEWMGIINPISGSTSNAQKFQGRVTMTRDTSTSTVYMELSSLRSED
TAVYYCARDIVDAFDFWGQGTMVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSS
VVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWY
VDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
YPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Light Chain BUROSUMAB

AIQLTQSPSSLSASVGDRVTITCRASQGISSALVWYQQKPGKAPKLLIYDASSLESGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQFNDYFTF
GPGTKVDIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVY
ACEVTHQGLSSPVTKSFNRGEC

Product features and protocols

Key features

1	Purity	>95% as determined by SDS-PAGE
2	Labelling	**Arg**-$^{13}C_6$,$^{15}N_4$ | **Lys**-$^{13}C_6$,$^{15}N_2$
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	Histidine 1.55 mg/mL Methionine 1.49 mg/mL Sorbitol 45.91 mg/mL Polysorbate 80 0.5 mg/mL

Product preparation

1. Briefly centrifuge the tube before opening
2. 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)
3. Vortex gently to insure complete dissolution
4. Wait 15 minutes at Room temperature before proceeding further
5. 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

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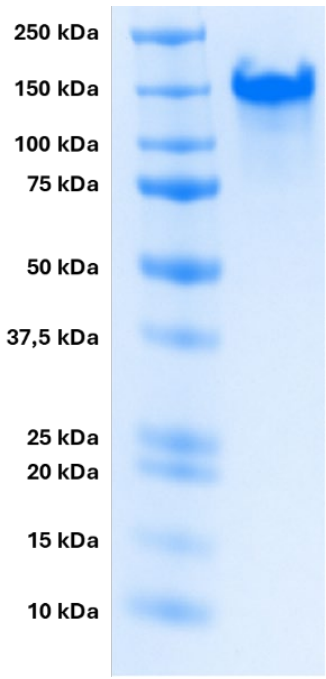
How to use our product

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

BUROSUMAB CRU0551:
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.

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