

Product description



Product name DATOPOTAMAB



Catalog number DAZ10161

DATOPOTAMAB: is used in the antibody–drug conjugate Datopotamab Deruxtecan. It targets TROP2 in the treatment of non-small cell lung cancer.

mAb sequence

Heavy chain DATOPOTAMAB

QVQLVQSGAEVKKPGASVKVSCKASGYFTTAGMQWVRQAPGQGLEWMGWINTHSGVPKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDT
AVYYCARSGFGSSYWFYFDVWGQGLTLVTVSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLY
SLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF
NWWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCL
VKGFPYSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

Light Chain DATOPOTAMAB

DIQMTQSPSSLSASVGRVTITCKASQDVTSTAVAWYQQKPGKAPKLLIYSASYRYTGVPSPRFSGSGSGTDFTLTISLQPEDFAVYYCQQHYITP
LTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKSTYLSLSTLTLSKADYEKHK
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	Lyophilized: 5 mM Histidine-HCl, 60 mM (2.27%) Trehalose, 0.01% Tween 20, pH 6.0

Product preparation

For product preparation we recommend the following steps:

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

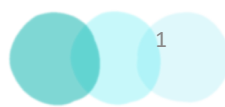
Product storage

The product is lyophilized and shipped at room temperature.

Store at -80 °C upon receipt.

After 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).

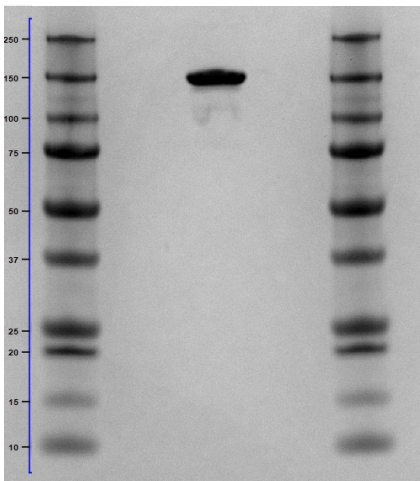


Supporting information

Datopotamab: DAZ10161

SDS-PAGE gel analysis in Reducing/Heated conditions (RH)

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

This product is licensed under U.S. Patent No. 7,396,688 and foreign counterparts from E. I. du Pont de Nemours and Company. The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product for research and development only. Information about licenses for other uses is available from: E. I. du Pont de Nemours and Company; Attn: Associate Director, Commercial Development; DuPont Experimental Station E268; 200 Powdermill Rd.; Wilmington, DE 19803; 1-877-881-9787 (voice), 1-302-695-1437 (fax), licensing@dupont.com.

Promise Proteomics	DATA SHEET DATOPOTAMAB DAZ10161
-------------------------------	------------------------------------

	Name Surname	Position	Date	Signature
Writing	Wilfried Bardet	Bioproduction Manager		
Review	Melanie Quintero	Project Associate		
Approval	Wilfried Bardet	Bioproduction Manager		

Version	Application date	Modifications history
01		Creation