

Human ROBO1 Protein, His Tag (MALS verified)

Catalog # RB1-H52H3



Synonyms

ROBO1, DUTT1

Source

Human ROBO1, His Tag (RB1-H52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 26 - Pro 897 (Accession # [Q9Y6N7-1](#)).

Predicted N-terminus: Gln 26

Molecular Characterization

ROBO1(Gln 26 - Pro 897) Q9Y6N7-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 97.5 kDa. The protein migrates as 100-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.2 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

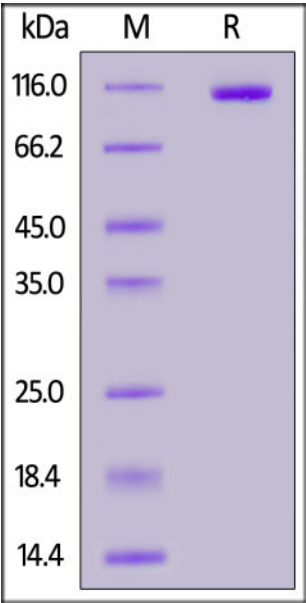
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

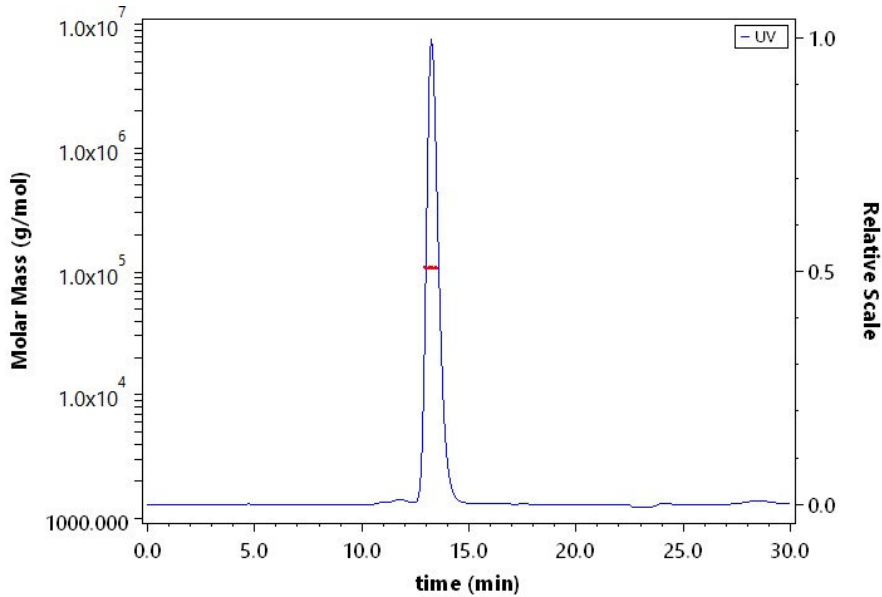
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



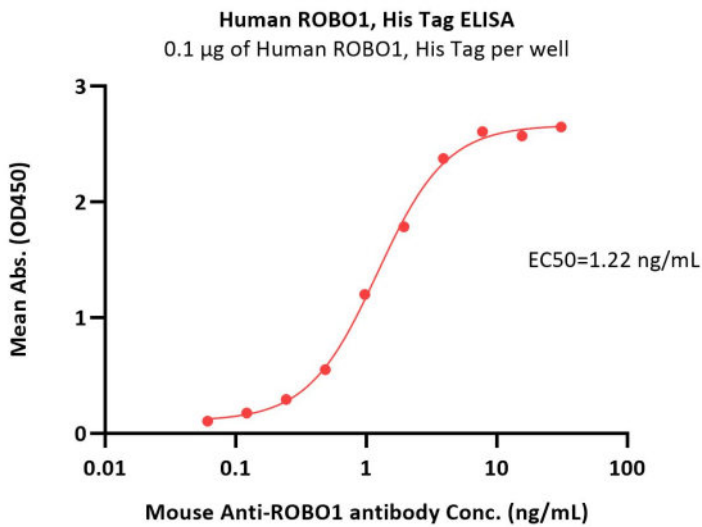
Human ROBO1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



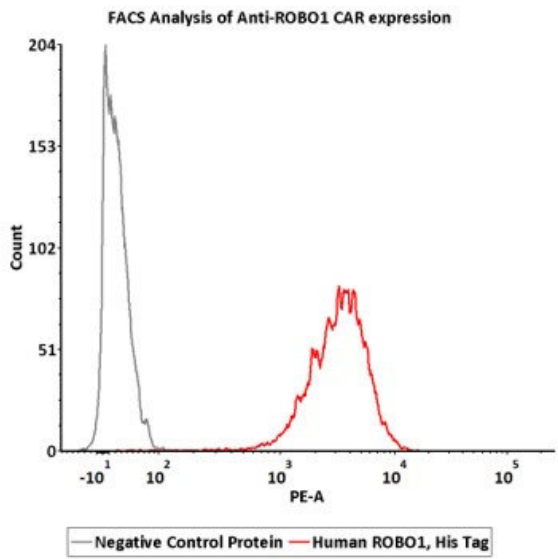
The purity of Human ROBO1, His Tag (Cat. No. RB1-H52H3) is more than 95% and the molecular weight of this protein is around 98-122 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human ROBO1, His Tag (Cat. No. RB1-H52H3) at 1 µg/mL (100 µL/well) can bind Mouse Anti-ROBO1 antibody with a linear range of 0.06-4 ng/mL (QC tested).

Bioactivity-FACS



2e5 of Anti-ROBO1 CAR-293 cells were stained with 100 µL of 10 µg/mL of Human ROBO1, His Tag (Cat. No. RB1-H52H3) and negative control protein respectively, washed and then followed by PE-anti His antibody and analyzed with FACS (Routinely tested).

Background

ROBO1 is a member of the ROBO immunoglobulin superfamily of proteins, and it plays a crucial role in cell motility and migration during embryogenesis and organogenesis. In addition, evidence showed that ROBO1 might drive migration and invasion in malignant cells, such as glioma and breast cancer, which might play

a role in cancer aggressiveness. In contrast, some studies suggested that ROBO1 pathways play a key role in tumors by acting as a tumor suppressor, especially in cell invasion.



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