

Human TROP-2 / TACSTD2 Protein, His Tag, low endotoxin (MALS verified)

Catalog # TR2-H5223



Synonym

TACSTD2, GA733-1, M1S1, TROP2

Source

Human TROP-2, His Tag (TR2-H5223) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Thr 274 (Accession # [P09758-1](#)).
Predicted N-terminus: Gln 31

Molecular Characterization

TROP-2(Gln 31 - Thr 274)
P09758-1

Poly-his

[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 29.4 kDa. The protein migrates as 43-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 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.

Storage

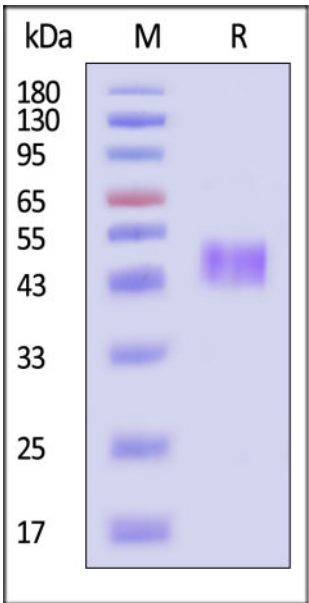
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

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

ACRO Quality Management System

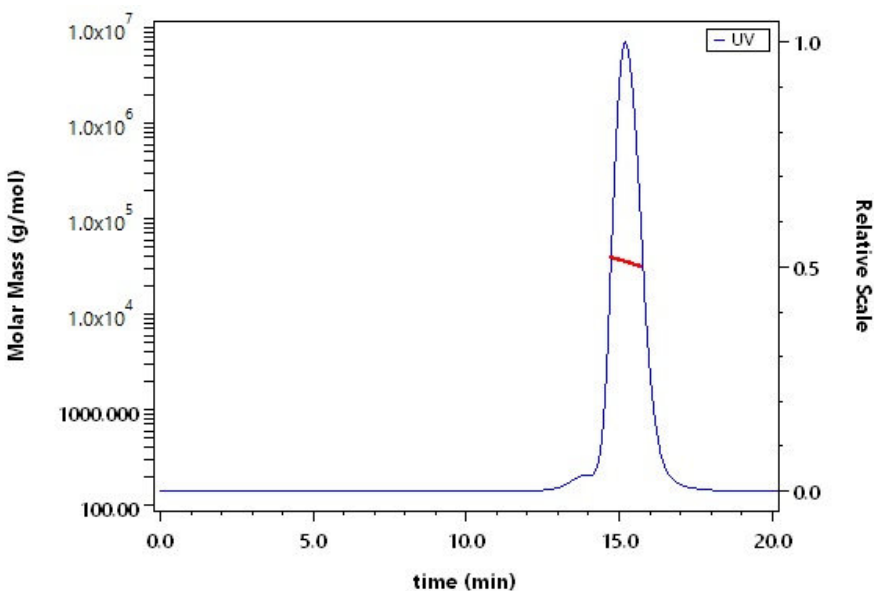
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



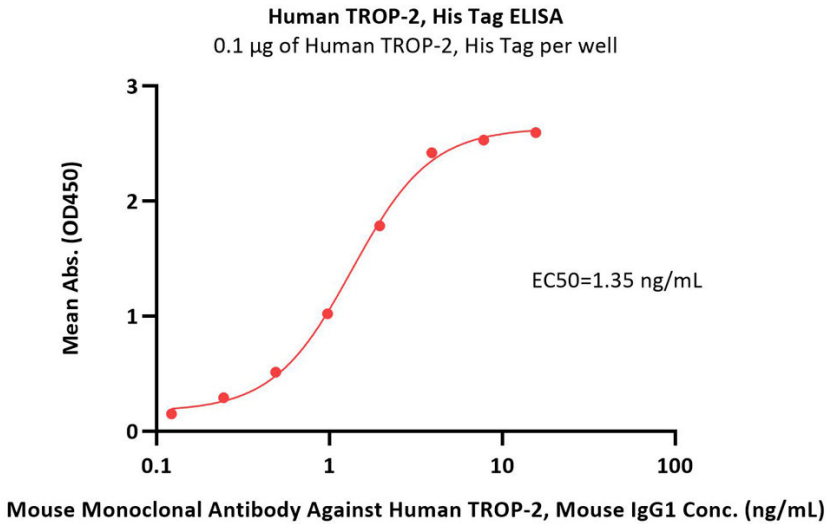
Human TROP-2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%

SEC-MALS



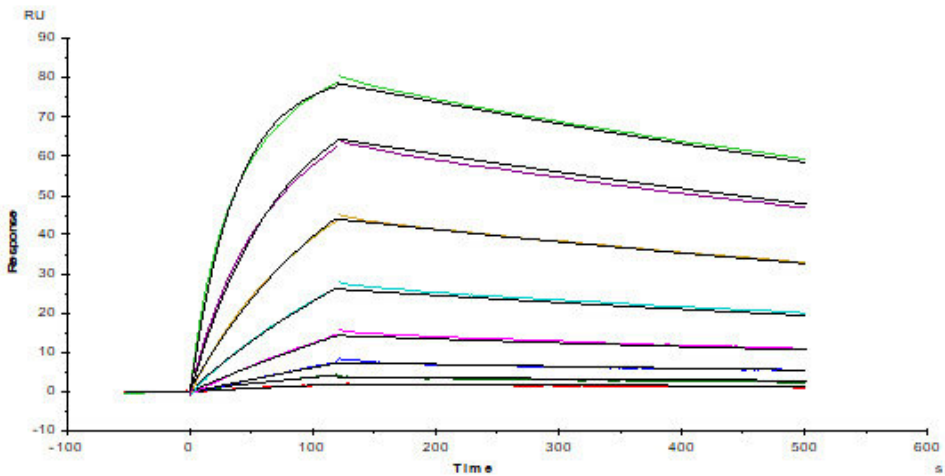
The purity of Human TROP-2, His Tag (Cat. No. TR2-H5223) is more than 95% and the molecular weight of this protein is around 33-50 kDa verified by SEC-

Bioactivity-ELISA



Immobilized Human TROP-2, His Tag (Cat. No. TR2-H5223) at 1 µg/mL (100 µL/well) can bind Mouse Monoclonal Antibody Against Human TROP-2, Mouse IgG1 with a linear range of 0.1-2 ng/mL (QC tested).

Bioactivity-SPR



Captured Trop2 antibody on CM5 chip via anti-mouse antibodies surface can bind Human TROP-2, His Tag (Cat. No. TR2-H5223) with an affinity constant of 5.98 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

TROP-2 is a single-copy gene in human cells, and encodes a type-1 transmembrane glycoprotein which is over-expressed in various malignancies, also referred to as tumor associated calcium signal transducer 2 (TACSTD2), GA733-1 or M1S1. TROP-2 is related to epithelial cell adhesion molecule (EpCAM), also called TROP-1, gp40, and KSA. Trop-1 and Trop-2 are homologous to serum IGF-II-binding proteins and appear as signal transducers. Thus, they likely represent novel cell-surface receptors and may play a role in regulating the growth of carcinoma cells.

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