Human TROP-2 / TACSTD2 (88-274) Protein, His Tag (MALS verified)

Catalog # TR2-H52H6

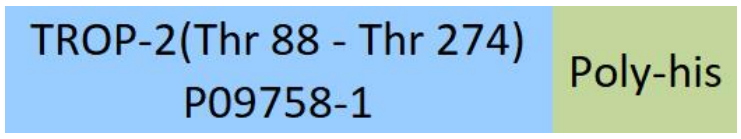
Synonym

TACSTD2,GA733-1,M1S1,TROP2

Source

Human TROP-2 (88-274) Protein, His Tag(TR2-H52H6) is expressed from human 293 cells (HEK293). It contains AA Thr 88 - Thr 274 (Accession # P09758-1).
Predicted N-terminus: Thr 88

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 23.5 kDa. The protein migrates as 33-43 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

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

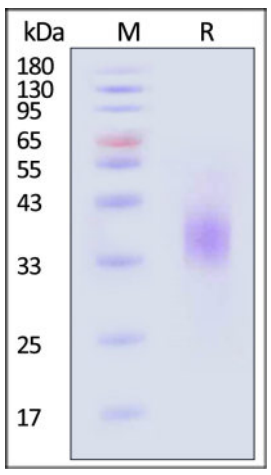
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

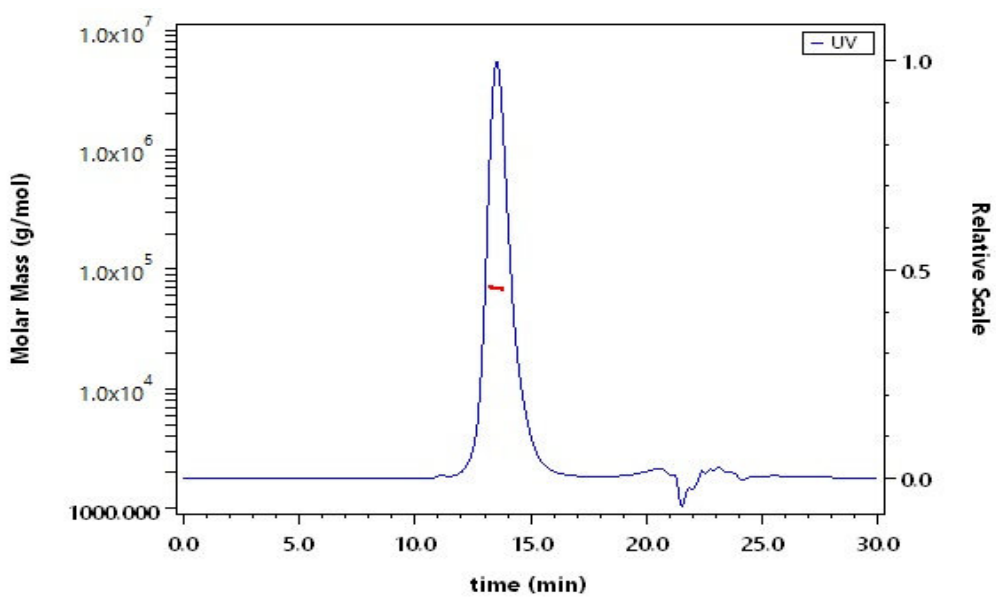
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



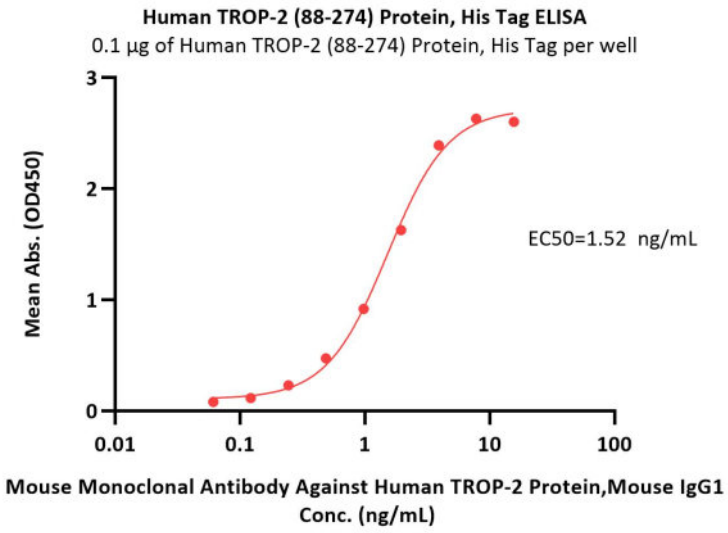
Human TROP-2 (88-274) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human TROP-2 (88-274) Protein, His Tag (Cat. No. TR2-H52H6) is more than 85% and the molecular weight of this protein is around 65-85 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Human TROP-2 (88-274) Protein, His Tag (Cat. No. TR2-H52H6) at 1 μg/mL (100 μL/well) can bind Mouse Monoclonal Antibody Against Human TROP-2 Protein,Mouse IgG1 with a linear range of 0.2-4 ng/mL (QC 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.