

Biotinylated Recombinant Human TROP-2/TACSTD2 Protein

Catalog No.: RP00421B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4070	P09758

Tags

C-His&Avi

Synonyms

EGP1; EGP-1; TROP2; GA733-1; gp50; T16; TACSTD2; TROP-2; M1S1; TACD2

Product Information

Source

HEK293 cells

Purification

≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW

30.5 kDa

Observed MW

46-55 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Trop-2, also known as epithelial glycoprotein-1 antigen (EGP-1), is a protein that in humans is encoded by the TACSTD2 gene. Mutations of this gene result in gelatinous drop-like corneal dystrophy, an autosomal recessive disorder characterized by severe corneal amyloidosis leading to blindness.

Basic Information

Description

Biotinylated Recombinant Human TROP-2/TACSTD2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His27-Thr274) of Human TROP-2/TACSTD2 (Accession #P09758) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

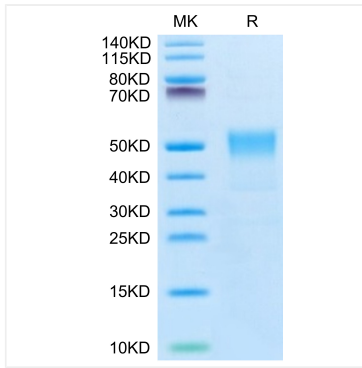
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

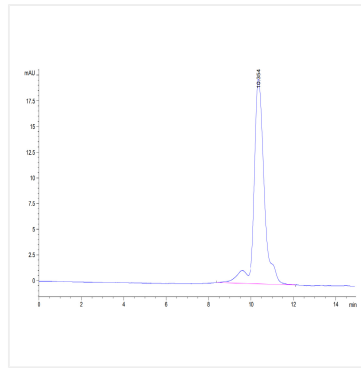
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

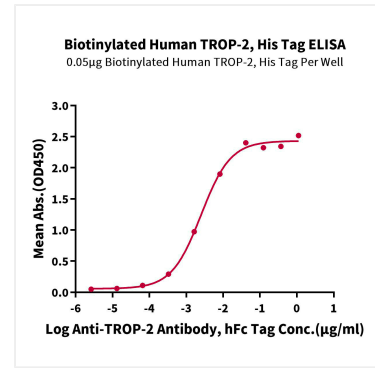
Validation Data



Biotinylated Recombinant Human TROP-2/TACSTD2 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human TROP-2 is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human TROP-2, His Tag at 0.5 µg/mL (100 µL/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Anti-TROP-2 Antibody, hFc Tag with the EC_{50} of 2.5ng/mL determined by ELISA.