

Biotinylated Recombinant Human TROP-2 /TACSTD2 Protein

Catalog No.: RP00421B

Sequence Information

Species	Gene ID
Human	4070
Swiss Prot	Tags
P09758	C-His&Avi

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
30.5 kDa	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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

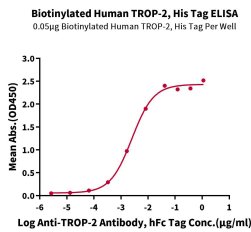
Operational Notes

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

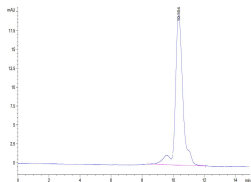
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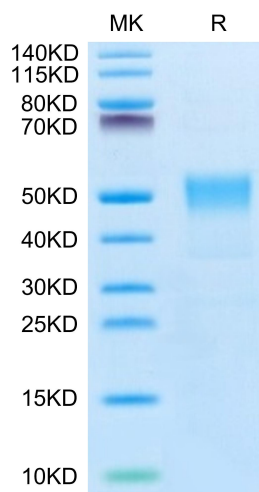
Validation Data



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 EC₅₀ of 2.5ng/mL determined by ELISA.



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



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