

# 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	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

### 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

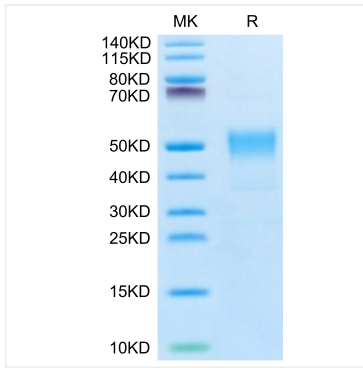
Biotinylated Recombinant Human TROP-2/TACSTD2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His27-Thr274) of Human TROP-2/TACSTD2 (Accession #P09758) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

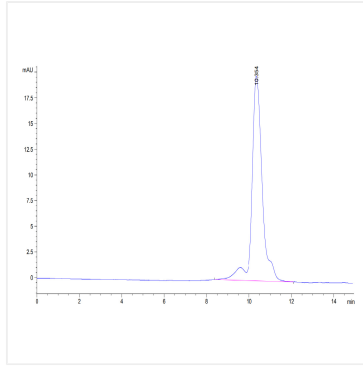
#### Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. 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.

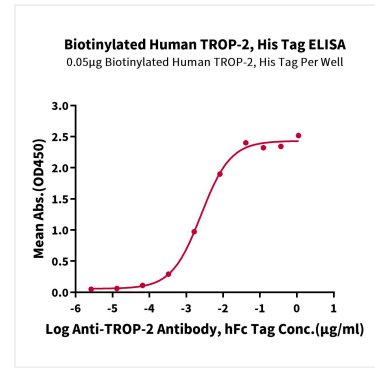
## Validation Data



Biotinylated Human TROP-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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.