

Biotinylated Human TROP-2/TACSTD2 Protein

Cat. No. TRP-HM421B

Description

Source	Recombinant Biotinylated Human TROP-2/TACSTD2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains His27-Thr274.
Accession	P09758
Molecular Weight	The protein has a predicted MW of 30.5 kDa. Due to glycosylation, the protein migrates to 46-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

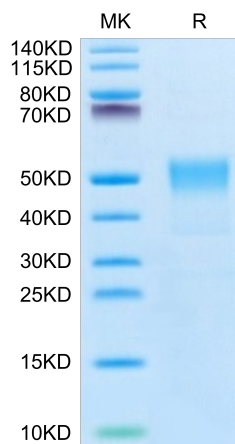
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

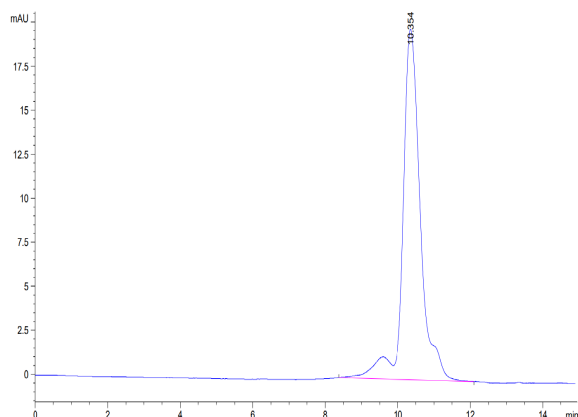
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



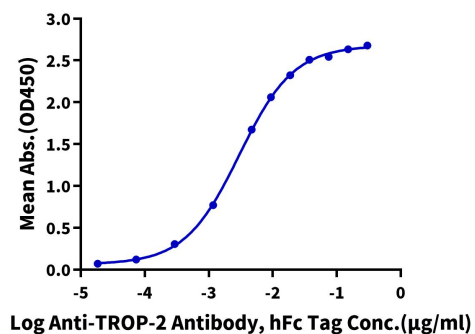
The purity of Biotinylated Human TROP-2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human TROP-2, His-Avi Tag ELISA

0.05µg Biotinylated Human TROP-2, His-Avi Tag Per Well



Immobilized Biotinylated Human TROP-2, His-Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-TROP-2 Antibody, hFc Tag with the EC50 of 3.0ng/ml determined by ELISA (QC Test).