

Human TROP-2/TACSTD2 Protein, Ultra Low Endotoxin



Cat. No. TRP-HM221-UL

| Description | |
|------------------|--|
| Source | Recombinant Human TROP-2/TACSTD2 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains His27-Thr274. |
| Accession | P09758 |
| Molecular Weight | The protein has a predicted MW of 54.6 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 0.001 EU 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 | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| 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

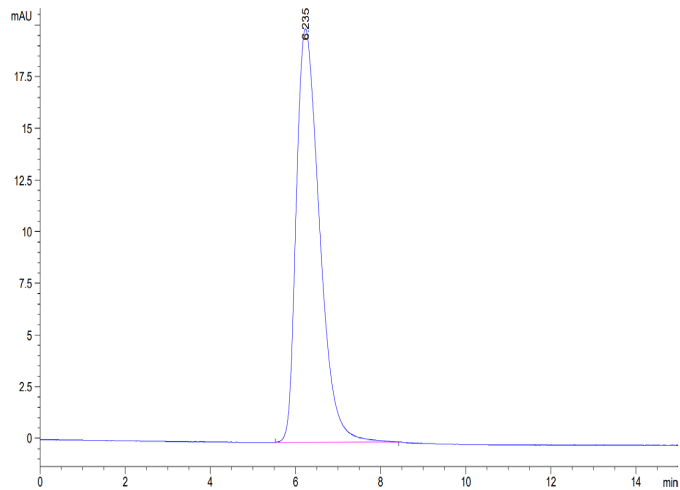
Bis-Tris PAGE



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

SEC-HPLC

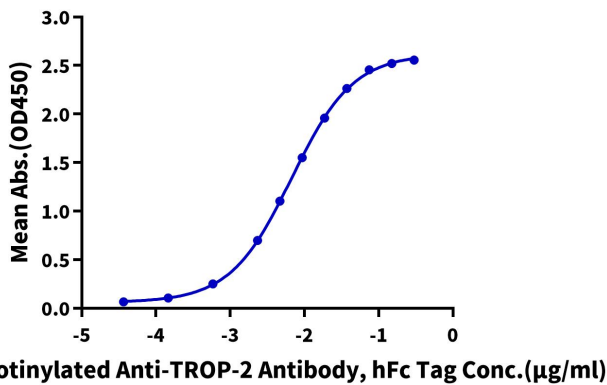
Assay Data



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

ELISA Data

Human TROP-2, hFc Tag ELISA
0.1µg Human TROP-2, hFc Tag Per Well



Immobilized Human TROP-2, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-TROP-2 Antibody, hFc Tag with the EC50 of 6.7ng/ml determined by ELISA.