Recombinant Human TROP-2/TACSTD2 Protein

Catalog No.: RP00423

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Sequence Information

Species
Human

Gene ID
4070

Swiss Prot
P09758

Tags
C-His

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
28.9 kDa

Observed MW
40-60 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 stablizer (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
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 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℃

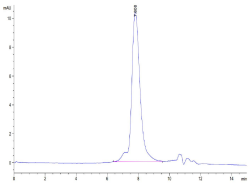
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

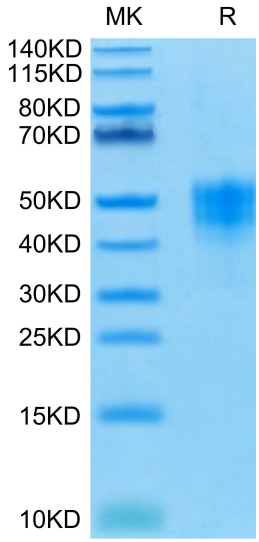
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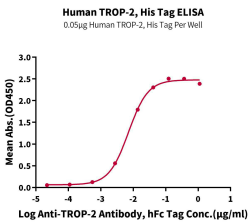
Validation Data



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



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



Immobilized Human TROP-2, His Tag at 0.5 μg/mL (100 μL/Well). Dose response curve for Anti-TROP-2 Antibody, hFc Tag with the EC_{50} of 7.1ng/mL determined by ELISA (QC Test).