

Recombinant Human TROP-2/TACSTD2 Protein

Catalog No.: RP00422 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4070	P09758

Tags
C-hFc

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
54.6 kDa	60-70 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

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-hFc tag at the C-terminus.

Bio-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. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. 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.

Operational Notes

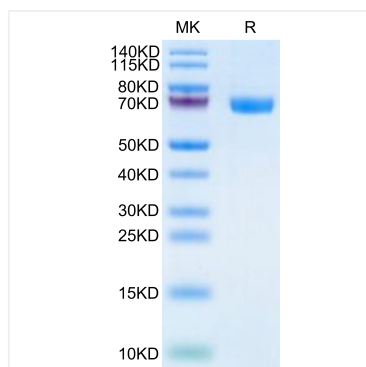
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

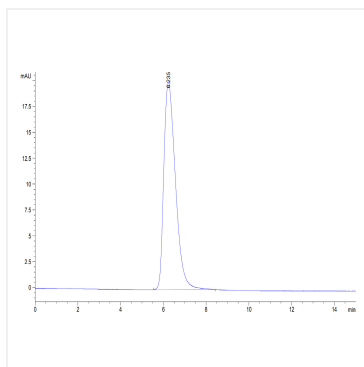
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✉	cn.market@abclonal.com.cn



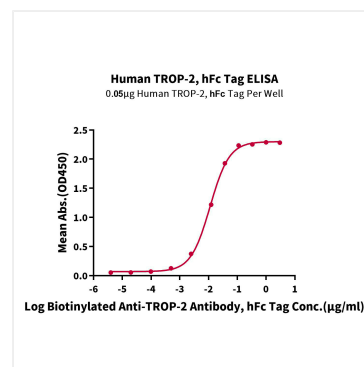
Validation Data



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



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



Immobilized Human TROP-2, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-TROP-2 Antibody, hFc Tag with the EC₅₀ of 11.3ng/mL determined by ELISA.