

RP00202

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Recombinant Human Cripto-1/TDGF1 Protein

Catalog No.: RP00202

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	6997	P13385

Tags

C-His

Synonyms

TDGF1;CR;CRGF;CRIPTO

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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

Cripto/TDGF1 is a member of the epidermal growth factor (EGF)- Cripto, Frl-1, and Cryptic (CFC) family. TDGF1 is an extracellular, membrane-bound signaling protein that plays an essential role in embryonic development and tumor growth. It is overexpressed in many types of cancers and acts as a growth factor for tumors. Cripto mutants display defects in mesoderm induction and heart morphogenesis, similar to phenotypes seen in Nodal mutants. Cripto can also activate mitogen-activated protein kinase (MAPK) and Akt pathways independently of Nodal by directly binding to a membrane-associated heparan sulfate proteoglycan, glypican-1.

Basic Information

Description

Recombinant Human Cripto-1/TDGF1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu31-Thr172) of human Cripto/TDGF1 (Accession #NP_003203) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Cripto at 2 μg/mL (100 μL/well) can bind Recombinant Human ALK4 with a linear range of 0.15-151 ng/mL.

Storage

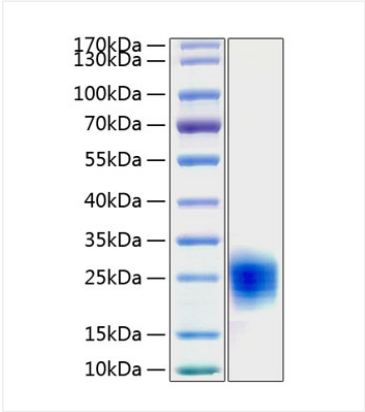
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

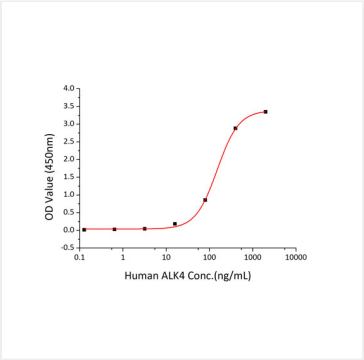


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Validation Data



Recombinant Human Cripto-1/TDGF1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-30 kDa..



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