

Catalog No.: RP00202 **Recombinant**

Species	Gene ID	Swiss Prot
Human	6997	P13385

C-His

TDGF1:CR:CRGF:CRPTO

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.

Recombinant Human Cripto-1/TGDF1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu31-Thr172) of human Cripto/TGDF1 (Accession #NP_003203) fused with a 6×His tag at the C-terminus.

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.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Avoid repeated freeze/thaw cycles.

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

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
16.78 kDa	20-30 kDa

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

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

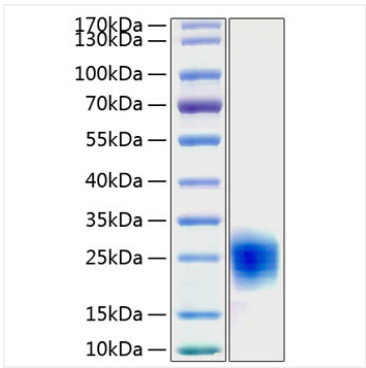
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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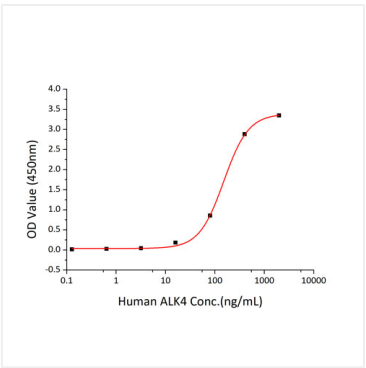
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Validation Data



Recombinant Human Cripto-1/TDGF1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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