

Recombinant Mouse Cripto/TDGF1 Protein

Catalog No.: RP01946 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21667	P51865

Tags

C-His

Synonyms

Cripto; TdGF1 Teratocarcinoma-derived growth factor; Cripto growth factor; Epidermal growth factor-like Cripto protein

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW **Observed MW**

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.

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.

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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 Mouse Cripto/TDGF1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg26-Gln150) of Mouse Cripto/TDGF1 (Accession #NP_035692.2) fused with a His tag at the C-terminus.

Bio-Activity

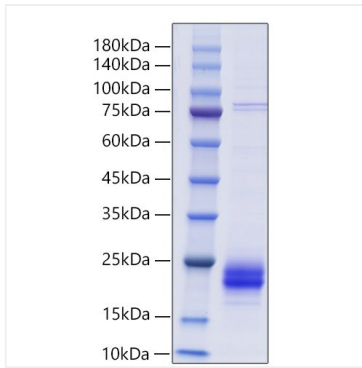
Storage

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.

Validation Data



Recombinant Mouse Cripto/TDGF1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-25 kDa.