



## Teratocarcinoma-Derived Growth Factor 1, HEK 293, human recombinant (rHuTDGF1-HEK)

**Catalog No:** 97357  
**Lot No:** XXXXX  
**Source:** HEK293  
**Synonyms:** CRIPTO1, CRIPTO-1, CRGF, Teratocarcinoma-Derived Growth Factor 1, TDGF1, CR

### Background

TDGF1 is an extracellular, membrane-bound signaling protein that is involved in embryonic development and tumor growth. Mutations in TDGF1 are associated with forebrain defects TDGF1 takes part in the determination of the epiblastic cells that later provide growth to the mesoderm.

### Description

TDGF1 human recombinant produced in HEK-293 cells is a single, glycosylated, polypeptide chain containing 139 amino acids with a molecular weight of 17.8 kDa though on SDS-PAGE migrates at about 25 kDa due to glycosilation. TDGF1 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The TDGF1 protein was lyophilized from a 0.2 µm filtered solution containing no additives or preservatives.

### Solubility

It is recommended to reconstitute the lyophilized TDGF1 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized TDGF1, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TDGF1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Amino Acid Sequence

LGHQEFARPS RGYLAFRDDS IWPQEEP AIR PRSSQRVPPM GIQHSKELNR TCCLNGGTCM LGSFCACPPS FYGRNCEHDV  
RKENC GSVPH DTWLPKKCSL CKCWHGQLRC FPQAF L PGCD GLVMDEHLVA SRTPELPPS

### Activity

In a functional ELISA, immobilized recombinant human Activin RIB/Fc chimera receptor (0.2 µg/ml) will bind TDGF1 with linear range of 0.8 - 100 ng/ml.

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### Usage

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