

## Recombinant Human TDGF1

|            |   |       |
|------------|---|-------|
| CATALOG #: | 4335-10   | 10 µg |
|            | 4335-1000   | 1 mg  |
| LOT #:     | <hr/>   |       |
| SYNONYMS:  | CRIPTO1, CRIPTO-1, CRGF, Teratocarcinoma-Derived Growth Factor 1, TDGF1, CR1. |       |
| SOURCE:    | HEK293-F Cells  |       |
| PURITY:    | > 95 % by SDS-PAGE  |       |
| FORM:      | Lyophilized from a sterile filtered solution without additives                |       |

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH<sub>2</sub>O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

### STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted human TDGF1 should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

### DESCRIPTION:

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. 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 25kDa due to the glycosylation. The TDGF1 is purified by proprietary chromatographic techniques.

### AMINO ACID SEQUENCE:

LGHQEFARPS RGYLAFRDDS IWPQEEPAIR PRSSQVRPPM GIQHSKELNR TCCLNGGTCM  
LGSFCACPPS FYGRNCEHDV RKENC GSVPH DTWLPKCKSL CKCWHGQLRC  
FPQAFLPGCD GLVMDEHLVA SRTPELPPS

### BIOLOGICAL 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.

### RELATED PRODUCTS:

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Stem Cell Research Tools

- For Embryonic Stem Cells
- For Mesenchymal Stem Cells
- For Neural Stem Cells
- StemBoost™ Growth Factor Sets

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies

**FOR RESEARCH USE ONLY! Not to be used in humans.**