

## Active Recombinant Human TDGF1 Protein, Tag Free

**Cat. No.** TDGF1-592H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | 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 glycosilation. The TDGF1 is purified by proprietary chromatographic techniques. |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                               |
| <b>Source</b>              | Human                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>       | 31-169 a.a.                                                                                                                                                                                                                                                                                         |
| <b>Description</b>         | 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.           |
| <b>Form</b>                | The TDGF1 protein was lyophilized from a 0.2 $\mu$ m filtered solution containing no additives or preservatives.                                                                                                                                                                                    |
| <b>Purity</b>              | Greater than 95.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>        | In a functional ELISA, immobilized recombinant human Activin RIB/Fc chimera receptor (0.2 $\mu$ g/mL) will bind TDGF1 with linear range of 0.8 to 100 ng/ml.                                                                                                                                        |
| <b>Physical Appearance</b> | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Solubility</b>          | It is recommended to reconstitute the lyophilized TDGF1 in sterile 18M $\mu$ -cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                |
| <b>Amino acid sequence</b> | LGHQEFARPS RGYLAFRDDS IWPQEPAIR PRSSQRVPPM GIQHSKELNR<br>TCCLNGGTCM LGSFCACPPS FYGRNCEHDV RKENCGSVPH DTWLPPKKCSL<br>CKCWHGQLRC FPQAFLPGCD GLVMDEHLVA SRTPELPPS.                                                                                                                                                                       |
| <b>Storage</b>             | 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. |

## GENE INFORMATION

|                        |                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TDGF1 teratocarcinoma-derived growth factor 1 [ Homo sapiens ]                                                                                      |
| <b>Official Symbol</b> | TDGF1                                                                                                                                               |
| <b>Synonyms</b>        | TDGF1; teratocarcinoma-derived growth factor 1; CR; CRGF; CRIPTO; Cripto-1; Epidermal growth factor-like cripto protein CR1; Cripto-1 growth factor |
| <b>Gene ID</b>         | 6997                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_003212                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_003203                                                                                                                                           |
| <b>MIM</b>             | 187395                                                                                                                                              |
| <b>UniProt ID</b>      | P13385                                                                                                                                              |

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|--------------------------------|------------------------|
| <b>Chromosome<br/>Location</b> | 3p21.31                |
| <b>Function</b>                | growth factor activity |