

Active Recombinant Human TDGF1 Protein, Tag Free

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

SPECIFICATION

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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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

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

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Chromosome Location	3p21.31
Function	growth factor activity