

Active Recombinant Human TDGF1, Fc-tagged

Cat. No. TDGF1-27821TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 31-169 of Human Cripto1 fused to the Fc region of human IgG1 (aa 90-330). The chimeric protein was expressed in modified human 293 cells.
Species	Human
Source	Modified human 293 cells
ProteinLength	31-169 a.a.
Description	This gene encodes an epidermal growth factor-related protein that contains a cripto, FRL-1, and cryptic domain. The encoded protein is an extracellular, membrane-bound signaling protein that plays an essential role in embryonic development and tumor growth. Mutations in this gene are associated with forebrain defects. Pseudogenes of this gene are found on chromosomes 2, 3, 6, 8, 19 and X. Alternate splicing results in multiple transcript variants.
Conjugation	Fc
Tissue specificity	Preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts.
Biological activity	200 ng/ml of this Chimera induces ERK1 and ERK2 phosphorylation in human umbilical vein endothelial (HUVEC) cells.

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Form	Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not rec
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin
Storage	Store at +4°C.
Sequences of amino acids	Theoretical sequence: LGHQEFARPSRGYLAFRDDSIWPQEEPAI RPRSSQVRVPPMG IQHSEKLNRTCCNLNGGTCMLGSGFCAC PPSFYGRNCEHDVRKENC GSVPHDTWLPK KCSLCKCWH GQLRCFPQAFLPGCDGLVMDEHLVASRTPELPPSGSSNTKVDDKKVE PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPK DTL MISRTPEVTCVVDVSHEDPE VKFNWYVDGVEVHN AKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK ALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ VSLTCLVKGFYPSDIAVEWES NGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMHEALHNHYTQ KS LSLSPGK
Sequence Similarities	Contains 1 EGF-like domain.

GENE INFORMATION

Gene Name	TDGF1 teratocarcinoma-derived growth factor 1 [Homo sapiens]
Official Symbol	TDGF1
Synonyms	TDGF1; teratocarcinoma-derived growth factor 1; CR; CRIPTO; Cripto 1;

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Gene ID	6997
mRNA Refseq	NM_001174136
Protein Refseq	NP_001167607
Uniprot ID	P13385
Chromosome Location	3p21.31
Pathway	Developmental Biology, organism-specific biosystem; Glypican 1 network, organism-specific biosystem; Regulation of Signaling by NODAL, organism-specific biosystem; Signaling by NODAL, organism-specific biosystem;
Function	growth factor activity; protein binding; receptor binding;

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