

ARG70273
Human TDGF1 / Cripto 1 recombinant protein (His-tagged, C-ter)

Package: 50 µg

Store at: -20°C

Summary

Product Description	HEK293 expressed, His-tagged (C-ter) Human TDGF1 / Cripto 1 recombinant protein.
Tested Reactivity	Hu
Tested Application	Binding, SDS-PAGE
Target Name	TDGF1 / Cripto 1
Species	Human
A.A. Sequence	Leu31 - Thr172 of Human TDGF1 / Cripto 1 (NP_003203) with 6X His tag at the C - terminus.
Expression System	HEK293
Alternate Names	CRGF; Teratocarcinoma-derived growth factor 1; Cripto-1 growth factor; CR; CRIPTO; Epidermal growth factor-like cripto protein CR1

Application Instructions

Application Note	Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Cripto at 2 µg/ml (100µl/well) can bind Recombinant Human ALK4 with a linear range of 0.15-151 ng/ml.
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Properties

Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	TDGF1
Gene Full Name	teratocarcinoma-derived growth factor 1
Background	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. [provided by RefSeq, Mar 2010]
Function	GPI-anchored cell membrane protein involved in Nodal signaling. Cell-associated TDGF1 acts as a Nodal coreceptor in cis. Shedding of TDGF1 by TMEM8A modulates Nodal signaling by allowing soluble TDGF1

to act as a Nodal coreceptor on other cells (PubMed:27881714). Could play a role in the determination of the epiblastic cells that subsequently give rise to the mesoderm (PubMed:11909953). [UniProt]

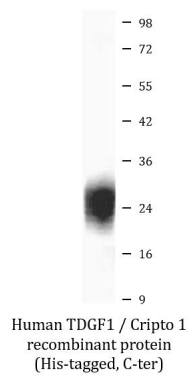
Calculated Mw

21 kDa

Cellular Localization

Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Released from the cell membrane by GPI cleavage. [UniProt]

Images



ARG70273 Human TDGF1 / Cripto 1 recombinant protein (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70273 Human TDGF1 / Cripto 1 recombinant protein (His-tagged, C-ter).