TDGF1 Protein, Human (GST)

Cat. No.:	HY-P700481
Synonyms:	Cripto-1 growth factor ; CRGFEpidermal growth factor-like cripto protein CR1
Species:	Human
Source:	E. coli
Accession:	P13385 (G32-D150)
Gene ID:	6997
Molecular Weight:	40.5 kDa

PROPERTIES

AA Sequence	G H Q E F A R P S R G Y L A F R D D S I W P Q E E P A I R P R S S Q R V P P M G I Q H S K E L N R T C C L N G G T C M L G S F C A C P P S F Y G R N C E H D V R K E N C G S V P H D T W L P K K C S L C K C W H G Q L R C F P Q A F L P G C D
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The TDGF1 Protein, a GPI-anchored cell membrane protein, emerges as a key participant in Nodal signaling. Functioning as a Nodal coreceptor in cis, cell-associated CRIPTO, when shed by TMEM8A, dynamically modulates Nodal signaling by enabling soluble CRIPTO to serve as a Nodal coreceptor on neighboring cells. This shedding mechanism contributes to the intricate regulation of Nodal signaling pathways. Moreover, TDGF1 is implicated in the determination of epiblastic cells, which subsequently give rise to the mesoderm, underlining its significance in early developmental processes. Notably, TDGF1 interacts with the activin type-1 receptor ACVR1B, further underscoring its role in mediating critical cellular signaling events.

Caution: Product has not been fully validated for medical applications. For research use only.

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