

**Synonym**

TDGF1, CRGF, CRIPTO

**Source**

Human TDGF1, Fc Tag (CRO-H5253) is expressed from human 293 cells (HEK293). It contains AA Leu 31 - Thr 172 (Accession # P13385-1).

Predicted N-terminus: Leu 31

**Molecular Characterization**

TDGF1(Leu 31 - Thr 172) P13385-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 42.6 kDa. The protein migrates as 44-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

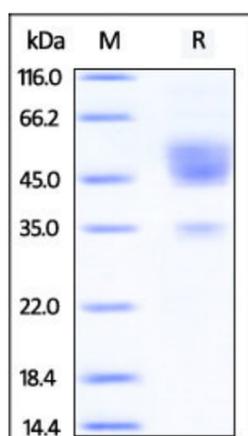
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human TDGF1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Background**

Teratocarcinoma-derived growth factor 1 (TDGF1) is also known as Cripto-1 growth factor (CRGF), Epidermal growth factor-like cripto protein CR1, CRIPTO, is a cell membrane which contains one EGF-like domain. TDGF1 is preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts. TDGF1 interacts with the activin type-1 receptor ACVR1B. TDGF1 could play a role in the determination of the epiblastic cells that subsequently give rise to the mesoderm.

**References**

- (1) [Bianco C., et al., 2002, Mol. Cell. Biol. 22:2586-2597.](#)

(2) [Foley S.F., et al., 2003, Eur. J. Biochem. 270:3610-3618.](#)

(3) [Sun C., et al., 2008, Biochem. Biophys. Res. Commun. 377:215-220.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.