



Synonym

CEDLAP,TGF-beta 1,TGFB1,DPD1,TGF-beta-1,TGFB

Source

Human TGF-Beta 1 Protein, premium grade(TG1-H5218) is expressed from human 293 cells (HEK293). It contains AA Ala 279 - Ser 390 (Accession # [P01137-1](#)).

Predicted N-terminus: Ala 279

It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage.

GMP-TG1H25 is the GMP version of this TG1-H5218. These two proteins display indistinguishable performance profiles, thereby ensuring a seamless transition for end users from early preclinical stag to later clinical phases.

Molecular Characterization

TGFB1(Ala 279 - Ser 390)
P01137-1

This protein carries no "tag".

The protein has a calculated MW of 12.8 kDa. The protein migrates as 13 kDa±3 kDa under reducing (R) condition, and 28 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE).

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Host Cell Protein

<0.5 ng/µg of protein tested by ELISA.

Host Cell DNA

<0.02 ng/µg of protein tested by qPCR.

Sterility

Negative

Mycoplasma

Negative

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 100 mM HAC, pH3.0 with trehalose as protectant.

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

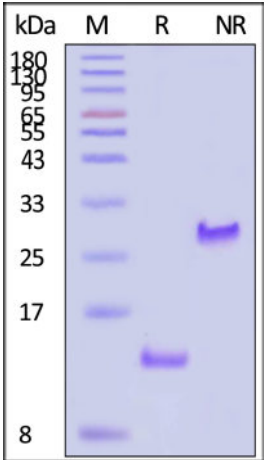
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Discounts, Gifts,
and more!



Human TGF-Beta 1 / TGFB1 Protein, premium grade

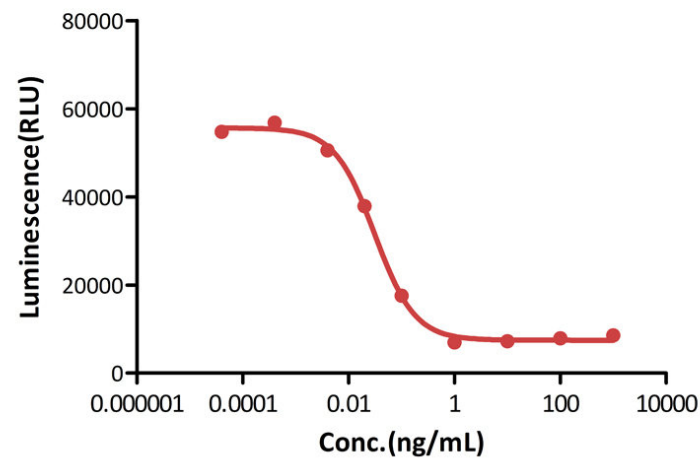
Catalog # TG1-H5218



Human TGF-Beta 1 Protein, premium grade on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-CELL BASE

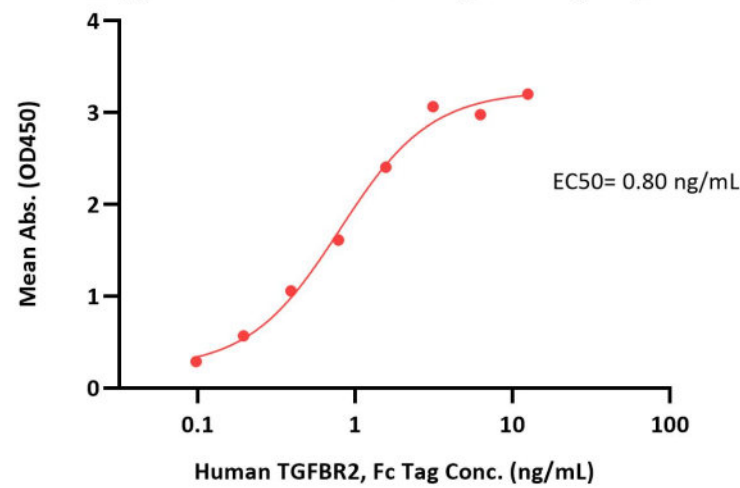
Human TGF-beta 1, premium grade inhibits the IL-4 dependent proliferation the TF-1 cells



Human TGF-beta 1, premium grade (Cat. No. TG1-H5218) inhibits the Human IL-4, premium grade (Cat. No. IL4-H4218) dependent proliferation the TF-1 cells. The specific activity of Human TGF-beta 1, premium grade is > 6.00x10⁶ IU/mg, which is calibrated against transforming growth factor β 1 (NIBSC code:89/514) (QC tested).

Bioactivity-ELISA

Human TGF-Beta 1 Protein, premium grade ELISA
0.02 μ g of Human TGF-Beta 1 Protein, premium grade per well



Immobilized Human TGF-Beta 1 Protein, premium grade (Cat. No. TG1-H5218) at 0.2 μ g/mL (100 μ L/well) can bind Human TGFBR2, Fc Tag (Cat. No. TG2-H5252) with a linear range of 0.097-3.125 ng/mL (QC tested).

Background

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form

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Human TGF-Beta 1 / TGFB1 Protein, premium grade

Catalog # TG1-H5218



heterodimers with other TGFB family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease. [provided by RefSeq, Aug 2016]

