

## Product Datasheet

### Human TGF-beta 1 Protein (orb257996)

<b>Catalog Number</b>	orb257996
<b>Category</b>	Proteins
<b>Description</b>	Human TGFB1, premium grade is expressed from human 293 cells (HEK293). It contains AA Ala 279 - Ser 390.
<b>Target</b>	TGF-beta 1
<b>Tag</b>	Native
<b>Reactivity</b>	Human
<b>Form/Appearance</b>	Powder
<b>Buffer/Preservatives</b>	Lyophilized from 0.22 µm filtered solution in 0.085% TFA in 30% ACN with trehalose as protectant
<b>Purity</b>	95%
<b>UniProt ID</b>	<b>P01137</b>
<b>MW</b>	12.8 kDa (monomer)
<b>Application notes</b>	This protein carries no "tag". The protein has a calculated MW of 12.8 kDa (monomer). The protein migrates as 14 kDa (monomer) under reducing (R) condition, and 25 kDa (Dimer) when calibrated against Star Ribbon Pre-stained Protein Marker under non-reducing (NR) condition (SDS-PAGE)
<b>Expression System</b>	HEK293
<b>Endotoxins</b>	Less than 0.1 EU per µg by the LAL method / rFC method
<b>Expression Region</b>	Ala 279 - Ser 390

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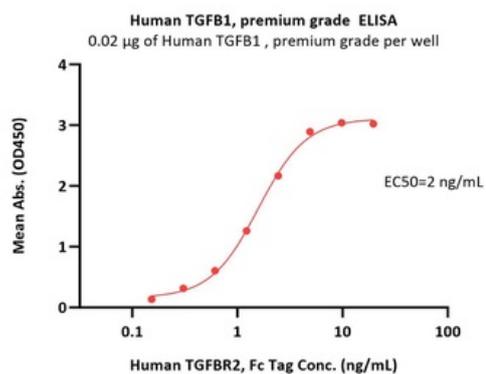
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**Storage**

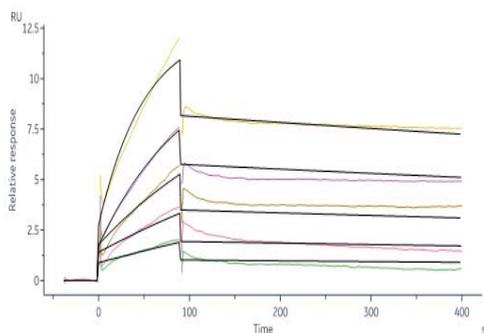
-20°C to -70°C for 12 months in lyophilized state;. -70°C for 12 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20°C or lower

**Note**

For research use only

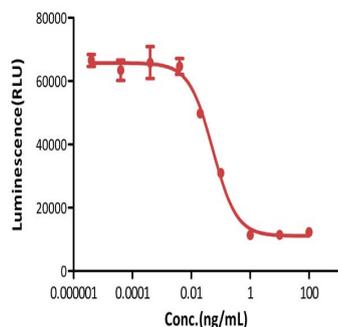


Immobilized Human TGFB1, premium grade (Cat. No. orb257996) at 0.2 µg/mL (100 µL/well) can bind Human TGFB2, Fc Tag (Cat. No. orb257866) with a linear range of 0.2-2.5 ng/mL (QC tested).



Human TGF-beta 1 Protein (Cat. No. orb257996) immobilized on CM5 Chip can bind Human TGF-beta RI Protein, Fc Tag (Cat. No. orb1786177) with an affinity constant of 99.2 nM as determined in a SPR assay (Biacore 8K)

**Human TGFB1 Protein inhibits the IL-4 dependent proliferation of TF-1 cells**



Human TGF-beta 1 Protein (Cat. No. orb257996) inhibits the Human IL-4, premium grade (Cat. No. orb257598) dependent proliferation the TF-1 cells. The specific activity of Human TGF-Beta 1 Protein, Tag Free is > 8.00x10<sup>6</sup> IU/mg, which is calibrated against transforming growth factor β1 (NIBSC code: 89/514)

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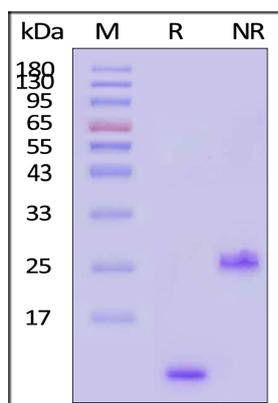
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Human TGF-beta 1 Protein (Cat. No. orb257996) on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

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