

Product Datasheet

Human TGF-beta 1 Protein (orb257996)

Catalog Number	orb257996
Category	Proteins
Description	Human TGFβ1, premium grade is expressed from human 293 cells (HEK293). It contains AA Ala 279 - Ser 390.
Target	TGF-beta 1
Conjugation	Unconjugated
Tag	Native
Reactivity	Human
Form/Appearance	Powder
Buffer/Preservatives	Lyophilized from 0.22 μm filtered solution in 0.085% TFA in 30% ACN with trehalose as protectant
Purity	95%
UniProt ID	P01137
MW	12.8 kDa (monomer)
Application notes	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)
Expression System	HEK293
Endotoxins	Less than 0.1 EU per μg by the LAL method / rFC method

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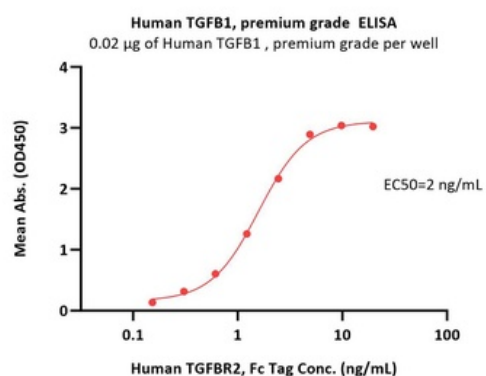
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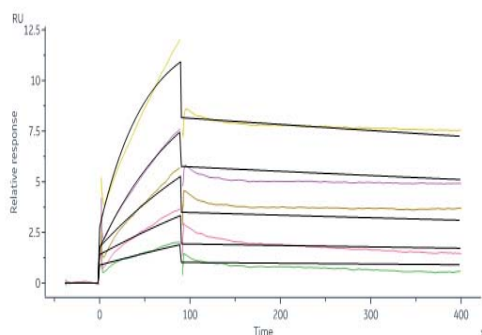
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Expression Region	Ala 279 - Ser 390
Storage	-20°C
Note	For research use only
NCBI	P01137
Expiration Date	6 months from date of receipt.



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)

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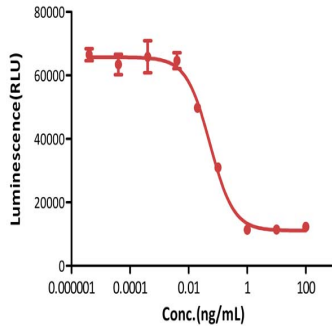
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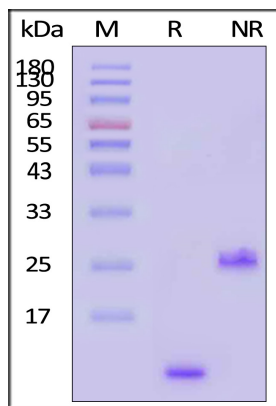
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Human TGFβ1 Protein inhibits the IL-4 dependent proliferation of TF-1 cells

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 $> 8.00 \times 10^6$ IU/mg, which is calibrated against transforming growth factor $\beta 1$ (NIBSC code: 89/514)



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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