TGF beta 2/TGFB2 Protein, Human (HEK293, Avi)

Cat. No.:	HY-P700785
Synonyms:	TGFB2; TGFBR2; TGFR2; TbetaR-II; TGFβR2; BB105277; TGF-beta 2; TβR-II; TGF-β 2
Species:	Human
Source:	HEK293
Accession:	P61812 (A303-S414)
Gene ID:	7042
Molecular Weight:	14.53 kDa

PROPERTIES

Biological Activity	Immobilized Biotinylated Human Mature TGF beta 2, Avi Tag at 2 μg/mL (100 μl/well) on the streptavidin precoated plate (5 μg/mL). Dose response curve for Human TGF-beta RII, mFc Tag with the EC_{50} of 0.75 μg/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of 4mM HCl. Normally 8% trehalose is added as protectant before lyophilization.
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 4mM HCl, pH 3.0.
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	As a central player in the TGF-beta-2 signaling pathway, the TGF beta 2/TGFB2 protein assumes the role of a precursor for both the Latency-associated peptide (LAP) and the Transforming growth factor beta-2 (TGF-beta-2) chains. These chains collectively form the regulatory and active subunits of TGF-beta-2, respectively. Notably, TGF beta 2/TGFB2 is essential for maintaining the TGF-beta-2 chain in a latent state during storage within the extracellular matrix. The protein engages in non-covalent associations with TGF-beta-2, intricately regulating its activation through interactions with 'milieu molecules,' including LTBP1 and LRRC32/GARP. These interactions play a pivotal role in controlling the activation of TGF-beta-2, contributing to the finely tuned regulation of this critical signaling pathway.

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