

Recombinant Human TGFB1 protein, His-Avi-tagged

Cat. No. TGFB1-697H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TGFB1 Protein is expressed from mammalian with His Tag and Avi Tag at the C-terminal. It contains Leu34-Glu125.
Species	Human
Source	HEK293
ProteinLength	Leu34-Glu125
Description	TGF-beta RI, also called ALK-5, is an approximately 55 kDa type I transmembrane serine/threonine receptor kinase. It contains a cysteine-rich extracellular domain (ECD), a transmembrane helix, and a C-terminal cytoplasmic kinase domain. Transmembrane serine/threonine kinase forming with the TGF-beta type II serine/threonine kinase receptor, TGFB2, the non-promiscuous receptor for the TGF-beta cytokines TGFB1, TGFB2 and TGFB3. Transduces the TGFB1, TGFB2 and TGFB3 signal from the cell surface to the cytoplasm and is thus regulating a plethora of physiological and pathological processes including cell cycle arrest in epithelial and hematopoietic cells, control of mesenchymal cell proliferation and differentiation, wound healing, extracellular matrix production, immunosuppression and carcinogenesis.
Form	Supplied as 0.22um filtered solution in PBS (pH 7.4).
Molecular Mass	The protein has a predicted MW of 12.9 KDa.

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Endotoxin	Less than 1EU per ug by the LAL method.
Storage	The product should be stored at -70°C. Please do not repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	TGFB1
Official Symbol	TGFB1
Synonyms	AAT5; activin A receptor type II-like kinase, 53kD; activin A receptor type II-like kinase, 53kDa; Activin receptor-like kinase 5; ACVRLK4; ALK-5; ALK-5ALK5; EC 2.7.11; EC 2.7.11.30; LDS1A; LDS2A; Serine/threonine-protein kinase receptor R4; SKR4; tbetaR-I; TGFB1R1; TGF-beta receptor type I; TGF-beta receptor type-1; TGF-beta RI; TGF-beta type I receptor; TGFbetaRI; TGFB1; TGF-bRI; TGFR-1; transforming growth factor beta receptor I; transforming growth factor, beta receptor 1; transforming growth factor, beta receptor I (activin A receptor type II-likekinase, 53kD); Transforming growth factor-beta receptor type I
Gene ID	7046
mRNA Refseq	NM_001130916.1
Protein Refseq	NP_001124388.1
MIM	190181
UniProt ID	P36897