Active Recombinant Human Transforming Growth Factor, Beta Receptor II (70/80kDa)

Cat. No. TGFBR2-923H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TGFBR2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain encoding 133 amino acids (27-159 a.a.), the extracellular domain of TGFBR2, having a molecular mass of 15.1 kDa. TGFBR2 is purified by proprietary chromatographic techniques
Species	Human
Source	Human
ProteinLength	27-159 a.a.
Description	TGFBR2 is part of the Ser/Thr protein kinase family and the TGFB receptor subfamily. TGFBR2 is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation.
Form	Lyophilized from a 0.2 μm filtered solution in buffer containing 150 mM NaCl & 50 mM sodium phosphate buffer pH-7.5.
Purity	Greater than 97.0 % as determined by SDS-PAGE.
Bio-activity	In ELISA assay, concentrations 0.5-1 g/ml can be used for TGF-beta measurements.

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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized TGFBR2 in sterile 18 Mμ-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	HVQK SVNNDMIVTD NNGAVKFPQL CKFCDVRFST CDNQKSCMSN CSITSICEKP QEVCVAVWRK NDENITLETV CHDPKLPYHD FILEDAASPK CIMKEKKKPG ETFFMCSCSS DECNDNIIFS EEYNTSNPD
Storage	Lyophilized TGFBR2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFBR2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	TGFBR2 transforming growth factor, beta receptor II (70/80kDa) [Homo sapiens]
Official Symbol	TGFBR2
Synonyms	TGFBR2; transforming growth factor, beta receptor II (70/80kDa); AAT3; FAA3; MFS2; RIIC; LDS1B; LDS2B; TAAD2; TGFR-2; TGFbeta-RII; TGF-beta receptor type-2; tbetaR-II; OTTHUMP00000161128; OTTHUMP00000208552; TGF-beta receptor type II; TGF-beta type II receptor; TGF-beta receptor type IIB; transforming growth factor-beta receptor type II; transforming growth factor beta receptor type IIC; transforming growth factor, beta receptor II (70/80kDa) isoform 1; transforming growth factor, beta receptor II (70/80kDa) isoform 2
Gene ID	7048

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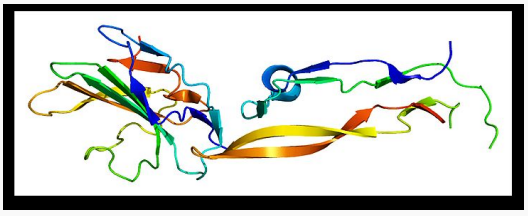
mRNA Refseq	NM_001024847
Protein Refseq	NP_001020018
MIM	190182
UniProt ID	P37173
Chromosome Location	3p22
Pathway	ALK1 signaling events; Adherens junction; Chagas disease (American trypanosomiasis); Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Endocytosis; Glypican 1 network; HTLV-I infection; Integrins in angiogenesis; MAPK signaling pathway; Osteoclast differentiation; Pancreatic cancer; Signaling by TGF beta; TGF-beta signaling pathway
Function	ATP binding; SMAD binding; glycosaminoglycan binding; metal ion binding; nucleotide binding; protein binding; contributes_to protein binding; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta binding; transforming growth factor beta receptor activity; transforming growth factor beta receptor activity, type II; transmembrane receptor protein serine/threonine kinase activity; type I transforming growth factor beta receptor binding; type I transforming growth factor beta receptor binding
PDBrendering based on 1ktz	

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