

Recombinant Human TGFB-R1, GST-His

Cat. No. TGFB-R1-716H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB-R1, C-terminal fragment, amino acids T200-M503, N-terminal GST-HIS6 fusion protein with a Thrombin cleavage site, was expressed in Sf9 insect cells. MW = 64,168 Da.
Species	Human
Source	Sf9 Cells
Protein Length	200-503 aa
Description	The protein encoded by this gene forms a heteromeric complex with type II TGF-beta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS).
Purification	GST-Affinity Chromatography.
Product Identity	TGFB-R1 was confirmed as TGFB-R1 by mass spectroscopy LCESI-MS/MS.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol.
Concentration	0.193 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).

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Specific Activity	501 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
GENE INFORMATION	
Gene Name	TGFB1 transforming growth factor, beta receptor 1 [Homo sapiens]
Synonyms	TGFB1; transforming growth factor, beta receptor 1; AAT5; ALK5; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1; ACVRLK4; 9q22; activin receptor-like kinase 5; transforming growth factor beta receptor I; serine/threonine-protein kinase receptor R4; activin A receptor type II-like kinase, 53Kd; activin A receptor type II-like kinase, 53kDa; transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kD); EC 2.7.11.30; TGF-beta receptor type-1; Transforming growth factor-beta receptor type I; TGF-beta receptor type I; TGF-beta type I receptor; TbetaR-I; OTTHUMP00000021783
Gene ID	7046
mRNA Refseq	NM_001130916
Protein Refseq	NP_001124388
MIM	190181
UniProt ID	P36897
Chromosome Location	9q22
Pathway	Adherens junction; Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine

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receptor interaction; Endocytosis; MAPK signaling pathway; Pancreatic cancer; Pathways in cancer; TGF-beta signaling pathway

Function

ATP binding; SMAD binding; magnesium ion binding; manganese ion binding; nucleotide binding; protein complex binding; protein heterodimerization activity; protein serine/threonine kinase activity; receptor activity; transferase activity; transforming growth factor beta binding; transforming growth factor beta receptor activity, type I; type II transforming growth factor beta receptor binding; ubiquitin protein ligase binding

PDB rendering based on 1b6c.

