Recombinant Human TGFBR1, GST-tagged

Cat. No. TGFBR1-1499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFbetaR1 (80-end) was expressed by baculovirus in*Sf9*insect cells using an N-terminal GST tag. MW = 65 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	80-end a.a.
Description	TGFβR1 is a transmembrane serine/threonine protein kinase and a member of the TGFβ receptor subfamily. TGFβ regulates cell cycle progression by a unique signaling mechanism that involves its binding to TGFβR2 and activation of TGFβR1. TGFβR1 may be inactivated in many of the cases of human tumor cells refractory to TGFβ-mediated cell cycle arrest. Heterozygous mutations in TGFβR1 and TGFβR2 have been reported in Loeys-Dietz aortic aneurysm syndrome (LDS) and also dominant TGFβR2 mutations have been identified in Marfan syndrome type 2 (MFS2) and familial thoracic aortic aneurysms and dissections (TAAD). Mutations of TGFβR1 and TGFβR2 are associated with atherosclerosis and several human cancers.
Sequence	80-end.
Applications	Western Blot.
Storage And Stability	Store product at -70℃. For optimal storage, aliquot target into smaller quantities

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	after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	TGFBR1 transforming growth factor, beta receptor 1 [Homo sapiens]
Synonyms	TGFBR1; 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 receptor interaction; Endocytosis; MAPK signaling pathway; Pancreatic cancer;

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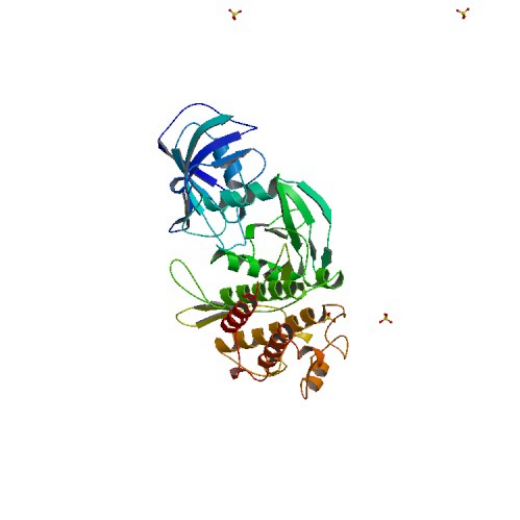
	Pathways in cancer; TGF-beta signaling pathway
Function	ATP binding; SMAD binding; magnesium ion binding; manganese ion binding; nucleotide binding; protein complex binding; protein heterodimerization activity; protein serine/threonine kinase activity; receptor activity; transferase activity; transforming 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.	

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