

## Active Recombinant Human TGFBR1, GST-tagged

Cat. No. TGFBR1-1495H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human TGFBR1 (ALK5) (80-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	80-503 aa
<b>Description</b>	<p>TGFβ1 or transforming growth factor, beta-receptor 1 is a member of the TGFβ receptor subfamily and is a ser/thr protein kinase that 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. Mutations in TGFβ1 gene have been associated with Marfan syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. TGFβ1-dependent signaling is required for angiogenesis but not for the development of hematopoietic progenitor cells and functional hematopoiesis.</p>
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	3 nmol/min/mg
<b>Molecular Mass</b>	~66 kDa

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<b>Purity</b>	>90%
<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TGFBR1 transforming growth factor, beta receptor 1 [ Homo sapiens ]
<b>Official Symbol</b>	TGFBR1
<b>Synonyms</b>	TGFBR1; transforming growth factor, beta receptor 1; transforming growth factor, beta receptor I (activin A receptor type II like kinase, 53kD); TGF-beta receptor type-1; activin A receptor type II like kinase; 53kDa; ACVRLK4; ALK 5; tbetaR-I; TGF-beta receptor type I; TGF-beta type I receptor; 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 type I; activin A receptor type II-like protein kinase of 53kD; transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kD); AAT5; ALK5; MSSE; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1;
<b>Gene ID</b>	7046
<b>mRNA Refseq</b>	NM_001130916
<b>Protein Refseq</b>	NP_001124388

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<b>MIM</b>	190181
<b>UniProt ID</b>	P36897
<b>Chromosome Location</b>	9q22
<b>Pathway</b>	ALK1 signaling events, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem;
<b>Function</b>	ATP binding; I-SMAD binding; SMAD binding; SMAD binding; contributes_to growth factor binding; metal ion binding; nucleotide binding; protein binding; protein heterodimerization activity; protein serine/threonine kinase activity; receptor activity; transforming growth factor beta binding; contributes_to transforming growth factor beta binding; transforming growth factor beta binding; transforming growth factor beta receptor activity, type I; transforming growth factor beta-activated receptor activity; transforming growth factor beta-activated receptor activity; transforming growth factor beta-activated receptor activity; contributes_to transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding; ubiquitin protein ligase binding;

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