

## Recombinant Human TGFBR1 (T204D), GST-tagged

Cat. No. TGFBR1-39H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human TGFBR1 (T204D) (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>	TGFBR1 or transforming growth factor, beta-receptor 1 is a member of the TGFbeta 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 TGFBR1 gene have been associated with Marfan syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. TGFBR1-dependent signaling is required for angiogenesis but not for the development of hematopoietic progenitor cells and functional hematopoiesis.
<b>Form</b>	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~66 kDa
<b>Applications</b>	Kinase Assay

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**Storage**

Store product at  $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities 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 ]

**Official Symbol**

TGFBR1

**Synonyms**

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;

**Gene ID**

7046

**mRNA Refseq**

NM\_001130916

**Protein Refseq**

NP\_001124388

**MIM**

190181

**UniProt ID**

P36897

**Chromosome**

9q22

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**Location****Pathway**

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;

**Function**

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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