# Recombinant Human TGFBR1 (T204D), GST-tagged

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

## SPECIFICATION

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| **Product Overview** | Recombinant human TGFBR1 (T204D) (80-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. |
| **Species** | Human |
| **Source** | Sf9 Cells |
| **ProteinLength** | 80-503 aa |
| **Description** | 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 TGFBR1gene 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. |
| **Form** | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| **Molecular Mass** | ~66 kDa |
| **Applications** | Kinase Assay |

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| **Storage** | Store product at –70oC. 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

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| **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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