

Active Recombinant Human TGFBR1 protein, His&hFc-tagged

Cat. No. TGFBR1-2346H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFBR1 protein(NP_004603.1)(Met1-Glu125), fused with His&hFc tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met1-Glu125
Form	Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized mouse CD105 at 10 µg/ml (100 µl/well) can bind human TGFRB1 with a linear range of 6.4-800 ng/ml.2. Measured by its ability to bind human CD105 in a functional ELISA.
Molecular Mass	The recombinant human TGFBR1/Fc is a disulfide-linked homodimer. The reduced monomer consists of 340 amino acids and has a predicted molecular mass of 38.1 kDa. As a result of glycosylation, the apparent molecular mass of rh TGFBR1/Fc monomer is approximately 45-50 kDa in SDS-PAGE under reducing conditions, with ~10% free Fc fragments.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 85 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
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


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MIM	190181
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UniProt ID	P36897
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