

# Recombinant Human TGFBR1

**Cat. No.** TGFBR1-31138TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 80-426 of Human TGF beta Receptor I was expressed by baculovirus in Sf9 insect cells using an N-terminal tag, 65kDa.
<b>Species</b>	Human
<b>ProteinLength</b>	80-426 a.a.
<b>Description</b>	The protein encoded by this gene 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. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Tissue specificity</b>	Found in all tissues examined, most abundant in placenta and least abundant in brain and heart.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 25% Glycerol, 50mM Sodium chloride, 50mM Tris HCl, 0.25mM DTT, 0.1mM PMSF, pH 7.5

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.Contains 1 GS domain.Contains 1 protein kinase domain.
<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;
<b>Gene ID</b>	7046
<b>mRNA Refseq</b>	NM_001130916
<b>Protein Refseq</b>	NP_001124388
<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

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(American trypanosomiasis), organism-specific biosystem; Chagas disease  
(American trypanosomiasis), conserved biosystem;

**Function**

ATP binding; I-SMAD binding; SMAD binding; SMAD binding; contributes\_to growth factor binding;

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