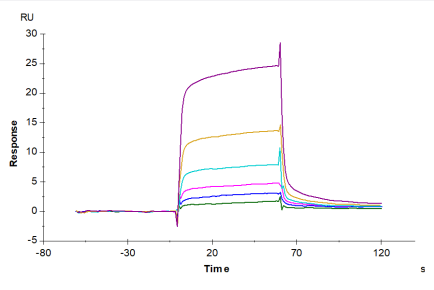
Bioactive HuPro®

TGFBR1 (Human) Recombinant Protein

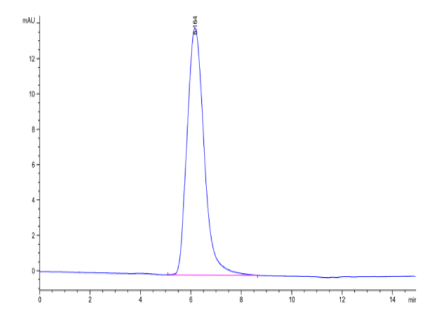
Catalog # P10285 Size 100 ug

Applications



Surface Plasmon Resonance

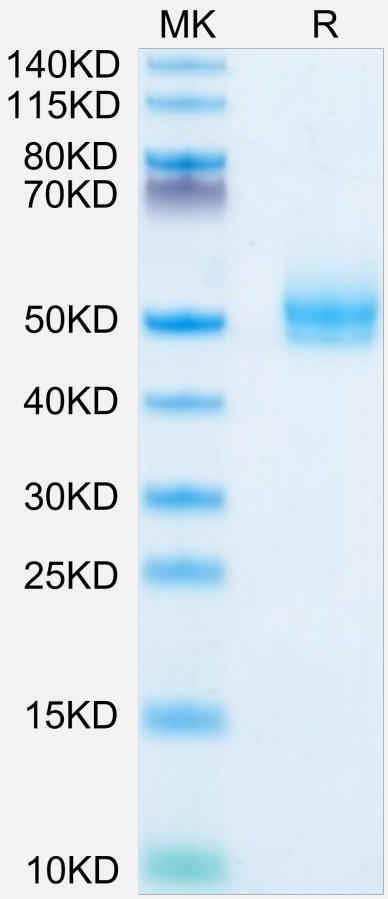
Human TGFBR1, mFc Tag captured on CM5 Chip via Protein A can bind Human Mature TGF beta 1, No Tag with an affinity constant of 0.35 uM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human TGFBR1 is greater than 95% as determined by SEC-HPLC.

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Tris-Bis PAGE

Human TGFBR1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human TGFBR1 (P36897-1, Leu34-Glu125) partial recombinant protein with mFc-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Leu34-Glu125
Host	Human
Theoretical MW (kDa)	38.2
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human TGFBR1 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human TGFBR1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

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Recommend Usage	Biological Activity ELISA SEC-HPLC SPR Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay
- Surface Plasmon Resonance

  Human TGFBR1, mFc Tag captured on CM5 Chip via Protein A can bind Human Mature TGF beta 1, No Tag with an affinity constant of 0.35 uM as determined in SPR assay (Biacore T200).

Gene Info — TGFBR1

Entrez GeneID	7046
Protein Accession#	P36897-1
Gene Name	TGFBR1
Gene Alias	AAT5, ACVRLK4, ALK-5, ALK5, LDS1A, LDS2A, SKR4, TGFR-1
Gene Description	transforming growth factor, beta receptor 1
Omim ID	190181 609192 610168 610380
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq

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Other Designations	OTTHUMP00000021783|activin A receptor type II-like kinase, 53kD|activin A receptor type II-like kinase, 53kDa|activin receptor-like kinase 5|serine/threonine-protein kinase receptor R4|transforming growth factor beta receptor I|transforming growth factor,

Pathway

- Adherens junction
- Chronic myeloid leukemia
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Endocytosis
- MAPK signaling pathway
- Pancreatic cancer
- Pathways in cancer
- TGF-beta signaling pathway

Disease

- Abnormalities
- Adenocarcinoma
- Adenoma
- Aneurysm
- Aortic Aneurysm
- Aortic Rupture
- Asthma
- Atherosclerosis
- Behcet Syndrome
- Bone Neoplasms
- Breast cancer

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- Breast Neoplasms
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetic Nephropathies
- Dilatation
- Disease Progression
- DNA Damage
- Ductus Arteriosus
- Edema
- Endometriosis
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genomic Instability
- Heart Defects
- Hepatitis C
- Infant
- Intracranial Aneurysm
- Keloid

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- Kidney Neoplasms
- Liver Cirrhosis
- Lung Neoplasms
- Lupus Erythematosus
- Marfan syndrome
- Neoplasm Invasiveness
- Neoplasm Recurrence
- Neoplasms
- Obesity
- Osteosarcoma
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Papillomavirus Infections
- Polycystic Ovary Syndrome
- Prostate cancer
- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Rectal Neoplasms
- Respiratory Syncytial Virus Infections
- Sleep Apnea
- Stroke
- Syndrome
- Thrombophilia
- Tobacco Use Disorder

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- Tooth Abnormalities
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Werner syndrome

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