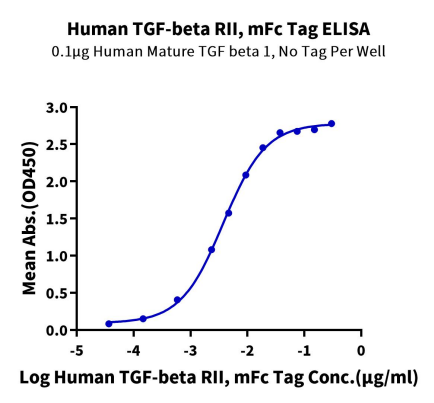
Bioactive HuPro®

TGFBR2 (Human) Recombinant Protein

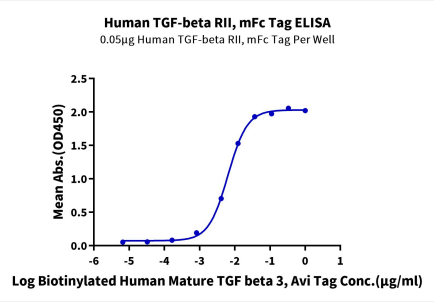
Catalog # P10057 Size 100 ug

Applications



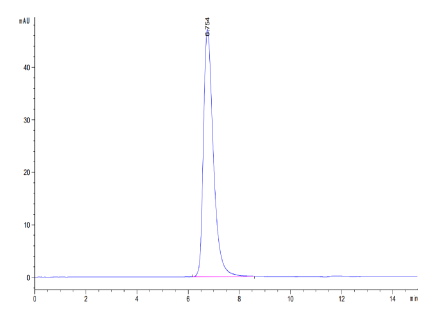
Enzyme-linked Immunoabsorbent Assay

Immobilized Human Mature TGF beta 1, No Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Human TGF-beta RII, mFc Tag with the EC_{50} of 3.8 ng/ml determined by ELISA.



ELISA

Immobilized Human TGF-beta RII, mFc Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human Mature TGF beta 3, Avi Tag with the EC_{50} of 6.4 ng/ml determined by ELISA (QC Test).



SEC-HPLC

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

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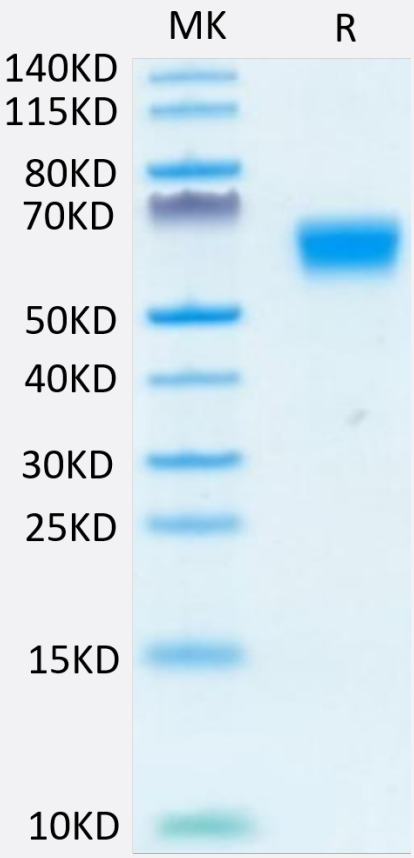

Tris-Bis PAGE

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

Specification

Product Description	Human TGFBR2 (P37173-1, Ile24-Asp159) partial recombinant protein with mFc-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Ile24-Asp159
Host	Human
Theoretical MW (kDa)	44
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)

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Quality Control Testing	ELISA and SEC-HPLC ELISA Immobilized Human TGF-beta RII, mFc Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human Mature TGF beta 3, Avi Tag with the EC_{50} of 6.4 ng/ml determined by ELISA (QC Test). SEC-HPLC The purity of Human TGF-beta RII is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human TGF-beta RII on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SEC-HPLC 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

  Immobilized Human Mature TGF beta 1, No Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Human TGF-beta RII, mFc Tag with the EC_{50} of 3.8 ng/ml determined by ELISA.

Gene Info — TGFBR2

Entrez GeneID	7048
Protein Accession#	P37173-1
Gene Name	TGFBR2
Gene Alias	AAT3, FAA3, LDS1B, LDS2B, MFS2, RIIC, TAAD2, TGFR-2, TGFbeta-RII
Gene Description	transforming growth factor, beta receptor II (70/80kDa)
Omim ID	133239 154705 190182 608967 609192
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes a member of the Ser/Thr protein kinase family and the TGFB receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized. [provided by RefSeq
Other Designations	TGF-beta receptor type IIB|TGF-beta type II receptor|transforming growth factor beta receptor type IIC|transforming growth factor, beta receptor II|transforming growth factor, beta receptor II (70-80kD)

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
- Aneurysm
- Aortic Aneurysm
- Aortic Rupture
- Asthma
- Atherosclerosis

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- Autoimmune Diseases
- Breast cancer
- Breast Neoplasms
- Brief Psychiatric Rating Scale
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Depressive Disorder
- Diabetes Mellitus
- Diabetic Nephropathies
- Dilatation
- Disease Progression
- Ductus Arteriosus
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genomic Instability
- Head and Neck Neoplasms
- Heart Defects
- Helicobacter Infections
- Hepatitis C
- Infant

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- Intracranial Aneurysm
- Keloid
- Kidney Failure
- Laryngeal Neoplasms
- Liver Cirrhosis
- Lupus Erythematosus
- Marfan syndrome
- Meningeal Neoplasms
- Meningioma
- Microsatellite Instability
- Mouth Neoplasms
- Neoplasms
- Obesity
- Osteoporosis
- Ovarian Failure
- Pancreatic cancer
- Pancreatic Neoplasms
- Pharyngeal Neoplasms
- Polycystic Ovary Syndrome
- Puberty
- Schizophrenia
- Stomach Neoplasms
- Stroke
- Syndrome
- Thrombophilia
- Tobacco Use Disorder

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- Vitiligo

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