

TGF-beta RI/ALK-5 Active Protein | TGF-betaRI/ALK-5 active protein

Recombinant human TGF-beta RI/ALK-5 protein

CATALOG # AAA48990	HOST Baculovirus	APPLICATIONS SDS-Page
------------------------------	----------------------------	---------------------------------

PRODUCT SYNONYMS

TGF-beta RI/ALK-5; Recombinant human TGF-beta RI/ALK-5 protein; TGF-beta receptor type-1 isoform 1; TGFBR1; AAT5; ACVRLK4; ALK-5; ALK5; ESS1; LDS1; LDS1A; LDS2A; MSSE; SKR4; tbetaR-I; TBR-I; TBRI; TGFR-1; Activin A receptor type II-like protein kinase of 53kD; Activin receptor-like kinase 5; Serine/threonine-protein kinase receptor R4; TGF-beta type I receptor; Transforming growth factor-beta receptor type I; TGF-betaRI/ALK-5 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	27-126aa
Sequence	Ala LLPGATAL QCFCHLCTKD NFTCVTDGLC FVSVTETTDK VIHNSMCIAE IDLIPDRPFC VCAPSSKTGS VTTYCCNQD HCNKIELPTT VKSSPGLGPV EL
Applicable Applications for TGF-betaRI/ALK-5 active protein	Bioactivity, SDS-PAGE
Species	Human
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag	hIgG-His-Tag
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

ADDITIONAL INFORMATION

Related Product Information for TGF-betaRI/ALK-5 active protein	TGFBR1, also known as TGF-beta receptor type-1 isoform 1, is a single-pass type 1 membrane protein which belongs to the protein kinase superfamily and TGFBR receptor subfamily. This protein is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. Also, it plays an important role in controlling the immune system, and shows different activities on different types of cell, or cells at different developmental stages. Defects in TGFBR1 are the cause of Loeys-Dietz syndrome type 1A (LDS1A), Loeys-Dietz syndrome type 2A (LDS2A), and aortic aneurysm familial thoracic type 5 (AAT5). Recombinant human TGFBR1, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for TGF-betaRI/ALK-5 active protein	Signal Transduction , Angiogenesis , Cardiovascular ; Proteins
References	Wrana JL., et al, (1992) Cell 71:1003-1014. Huse M., et al, (1999) Cell 96:425-436.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759226
NCBI GeneID	7046
NCBI Accession #	NP_004603.1
NCBI GenBank Nucleotide #	NM_004612.2
UniProt Accession #	P36897; Q6IR47; Q706C0; Q706C1
Molecular Weight	55,960 Da
NCBI Official Full Name	TGF-beta receptor type-1 isoform 1
NCBI Official Synonym Full Names	transforming growth factor, beta receptor 1
NCBI Official Symbol	TGFBR1
NCBI Official Synonym Symbols	AAT5; ALK5; ESS1; LDS1; MSSE; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1; ACVRLK4
NCBI Protein Information	TGF-beta receptor type-1; tbetaR-I; TGF-beta receptor type I; TGF-beta type I receptor; activin receptor-like kinase 5; multiple self-healing squamous epithelioma; transforming growth factor beta receptor I; serine/threonine-protein kinase receptor R4; ac
UniProt Protein Name	TGF-beta receptor type-1
UniProt Gene Name	TGFBR1
UniProt Synonym Gene Names	ALK5; SKR4; TGFR-1; ALK-5; ALK5; SKR4; TGF-beta receptor type I; TbetaR-I
UniProt Entry Name	TGFR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/baculovirus-tgf-beta-ri-alk-5-active-protein/tgf-beta-ri-alk-5/48990>