

Datasheet for ABIN7596185

TGFBR1 Protein (AA 27-126) (hIgG-His-tag)[Go to Product page](#)

Overview

Quantity:	500 µg
Target:	TGFBR1
Protein Characteristics:	AA 27-126
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TGFBR1 protein is labelled with hIgG-His-tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	LLPGATA LQCFCHLCTK DNFTCVTDGL CFVSVTETTD KVIHNSMCIA EIDLIPRDRP FVCAPSSKTG SVTTTYCCNQ DHCNKIELPT TVKSSPGLGP VEL
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured by its binding ability in a functional ELISA with Mouse CD105 (CAT# ATGP3361). The ED50 range ≤ 2 ug/ml.

Target Details

Target:	TGFBR1
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Target Details

Alternative Name:	TGF-beta RI/ALK-5 (TGFB1 Products)
Background:	TGFB1, 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 TGFB 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 TGFB1 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 TGFB1, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	38kDa (342aa)
NCBI Accession:	NP_004603
Pathways:	Growth Factor Binding

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.