Datasheet for ABIN7318102

TGFB1 Protein

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Overview

Quantity:	50 µg
Target:	TGFB1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human TGFB1/TGF-beta 1 Protein (Active)
Sequence:	Ala279-Ser390
Characteristics:	Recombinant Human Transforming Growth Factor beta 1 is produced by our Mammalian expression system and the target gene encoding Ala279-Ser390 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 mouse T cells. The ED50 for this effect is 0.04-0.2 ng/ml

Target Details

Target:	TGFB1
Alternative Name:	TGFB1/TGF-beta 1 (TGFB1 Products)

Target Details

Background:	Background: Transforming Growth Factor β-1 (TGFβ-1) is a secreted protein which belongs to the TGF-β family. TGFβ-1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGFβ-1 performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. The precursor is cleaved into a latency-associated peptide (LAP) and a mature TGFβ-1 peptide. TGFβ-1 may also form heterodimers with other TGFβ family members. It has been found that TGFβ-1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease. Synonym: Transforming Growth Factor Beta-1, TGF-Beta-1, Latency-Associated Peptide, LAP, TGFB1, TGFB,CED,DPD1,TGF-beta 1
Molecular Weight:	12.8 kDa
UniProt:	P01137
Pathways:	EGFR Signaling Pathway, Dopaminergic Neurogenesis, Cellular Response to Molecule of Bacterial Origin, Glycosaminoglycan Metabolic Process, Regulation of Leukocyte Mediated Immunity, Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response, Ribonucleoside Biosynthetic Process, Skeletal Muscle Fiber Development, Regulation of Carbohydrate Metabolic Process, Protein targeting to Nucleus, Autophagy, Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 50 mM Glycine, 50 mM NaCl, pH 4.0.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.