

Datasheet for ABIN1691448
TGFB1 Protein (AA 279-390)



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Overview

Quantity:	50 µg
Target:	TGFB1
Protein Characteristics:	AA 279-390
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Transforming Growth Factor β -1/TGFB1
Sequence:	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS
Characteristics:	Recombinant Human Transforming Growth Factor beta-1/TGFbeta-1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala279-Ser390) of Human TGFB1.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	TGFB1
Alternative Name:	TGFB1 (TGFB1 Products)

Target Details

Background:	Transforming Growth Factor beta-1 (TGFbeta-1) is a secreted protein which belongs to the TGF-beta family. TGFbeta-1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGFbeta-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 TGFbeta-1 peptide. TGFbeta-1 may also form heterodimers with other TGFbeta family members. It has been found that TGFbeta-1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease. Alternative Names: Transforming Growth Factor Beta-1, TGF-Beta-1, Latency-Associated Peptide, LAP, TGFB1, TGFB
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:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 50 mM Glycine 50 mM NaCl pH 4.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months