Datasheet for ABIN2733498

TGFB2 Protein (Transcript Variant 1)

Go to Product page

Overview

Quantity:	5 µg
Target:	TGFB2
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Standard (STD), Functional Studies (Func), Antibody Production (AbP), Protein Interaction (PI)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	• Recombinant human TGF-beta-2 (TGFB2) (transcript variant 1) protein expressed in CHO cells. • Produced with end-sequenced ORF clone • Tested for bioactivity.
Purity:	> 98 % , as determined by Coomassie stained SDS-PAGE.
Endotoxin Level:	Less than 0.01 ng per µg protein as determined by the LAL method.
Biological Activity Comment:	The ED50 is 1 - 4 ng/ml, corresponding to a specific activity of 0.25 - 1.0 x 10^6 units/mg.

Target Details

Target:	TGFB2

Target Details

Alternative Name:	Tgf-beta-2 (Tgfb2) (TGFB2 Products)
Background:	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. Disruption of the TGF-beta/SMAD pathway has been implicated in a variety of human cancers. A chromosomal translocation that includes this gene is associated with Peters' anomaly, a congenital defect of the anterior chamber of the eye. Mutations in this gene may be associated with Loeys-Dietz syndrome. This gene encodes multiple isoforms that may undergo similar proteolytic processing.
Molecular Weight:	12.7 kDa
NCBI Accession:	NP_001129071
Pathways:	Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response, Protein targeting to Nucleus

Application Details

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays Protein-protein interaction In vitro biochemical assays and cell-based functional assays
Restrictions:	For Research Use only

Handling

Concentration:	> 50 µg/mL
Buffer:	20 % Acetonitrile, 0.1 % TFA (Trifluoroacetic acid)
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.