

Active Recombinant Human TGFB2 Protein

Cat. No. TGFB2-015H Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of Human transforming growth factor, beta 2 (TGFB2)(Ala303-Ser414), transcript variant 1 was expressed in CHO cells.

Species Human

Source CHO

ProteinLength 303-414 a.a.

Description

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. [provided by RefSeq, Aug 2016].

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Bio-activity	The ED50 is 1 - 4 ng/ml, corresponding to a specific activity of 0.25 - 1.0 x 10 ⁶ units/mg.
Molecular Mass	12.7 kDa
Endotoxin	Less than 0.01 ng per g protein as determined by the LAL method.
Purity	> 98% as determined by Coomassie stained SDS-PAGE.
Concentration	Protein formulated and vialled at >50 g/mL in specified buffer
Storage Buffer	20% Acetonitrile, 0.1% TFA (Trifluoroacetic acid)

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens]
Official Symbol	TGFB2
Synonyms	TGFB2; transforming growth factor, beta 2; transforming growth factor beta-2; G-TSF; cetermin; polyergin; BSC-1 cell growth inhibitor; glioblastoma-derived T-cell suppressor factor; TGF-beta2; MGC116892;
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220

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UniProt ID

P61812

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