

Active Recombinant Human TGFB2 Protein

Cat. No. TGFB2-016H Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human transforming growth factor, beta 2 (TGFB2), transcript variant 2, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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].
Bio-activity	Determined by its ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells. ED50 was found to be < 0.2 ng/ml, corresponding to a specific activity of >

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	5 x 10 ⁶ units/mg.
Molecular Mass	25 kDa
AA Sequence	ALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSD TQHSRVLSLYNTINPEASAPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSKCS
Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1EU/g).
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	Resuspend the protein in the desired concentration in proper buffer
Storage Buffer	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2

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

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MIM	190220
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UniProt ID	P61812
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