

Active Recombinant Human TGFB2 Protein

Cat. No. TGFB2-104H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human TGF-beta 2 protein consists of 112 amino acids (303-414) without tag was expressed in E. coli.
Species	Human
Source	E.coli
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.
Bio-activity	Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED50 for this effect is 0.025-0.25 ng/mL.

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Molecular Mass	12.7 kDa
Product-Related Proteins	303-414
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor beta 2 [Homo sapiens (human)]
Official Symbol	TGFB2
Synonyms	TGFB2; transforming growth factor beta 2; LDS4; G-TSF; TGF-beta2; transforming growth factor beta-2 proprotein; Names; BSC-1 cell growth inhibitor; cetermin; glioblastoma-derived T-cell suppressor factor; polyergin; prepro-transforming growth factor beta-2
Gene ID	7042
mRNA Refseq	NM_003238
Protein Refseq	NP_003229
MIM	190220
UniProt ID	P61812

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