

Active Recombinant Human TGFB3 Protein

Cat. No. TGFB3-017H Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human transforming growth factor, beta 3 (TGFB3) 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. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Mutations in this gene are a cause of aortic aneurysms and dissections, as well as familial arrhythmogenic right ventricular dysplasia 1. [provided by RefSeq, Aug 2016].
Bio-activity	ED50 was determined by TGF-beta3's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is less than or equal to 0.05 ng/ml, corresponding to a specific activity of $>2 \times 10^7$ units/mg.

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Molecular Mass	25 kDa
AA Sequence	ALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWWHEPKGYANFCSGPCPYLRSAD TTHSTVLGLYNTLNPEASASPCCVPQDLEPLTILYYVGRTPKVEQLSNMVKCKCS
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	TGFB3 transforming growth factor, beta 3 [Homo sapiens]
Official Symbol	TGFB3
Synonyms	TGFB3; transforming growth factor, beta 3; transforming growth factor beta-3; TGF-beta-3; ARVD; TGF-beta3; FLJ16571;
Gene ID	7043
mRNA Refseq	NM_003239
Protein Refseq	NP_003230
MIM	190230

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UniProt ID

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