Active Recombinant Human TGFB3 Protein

Cat. No. TGFB3-018H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human transforming growth factor, beta 3 (TGFB3)(Ala301-Ser412) was expressed in CHO cells.
Species	Human
Source	CHO
ProteinLength	301-412 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. 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	The ED50 is from 0.10 to 0.4 ng/ml, corresponding to a specific activity of 2.5-10 x 10^6 units/mg.

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

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 vialed at >50 g/mL in specified buffer
Storage Buffer	25% Acetonitrile, 0.1% TFA (trifluoroacetic acid)

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
UniProt ID	P10600

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