

## 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<sup>6</sup> units/mg.

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<b>Molecular Mass</b>	12.7 kDa
<b>Endotoxin</b>	Less than 0.01 ng per g protein as determined by the LAL method.
<b>Purity</b>	> 98% as determined by Coomassie stained SDS-PAGE.
<b>Concentration</b>	Protein formulated and vialled at >50 g/mL in specified buffer
<b>Storage Buffer</b>	25% Acetonitrile, 0.1% TFA (trifluoroacetic acid)

## GENE INFORMATION

<b>Gene Name</b>	TGFB3 transforming growth factor, beta 3 [ Homo sapiens ]
<b>Official Symbol</b>	TGFB3
<b>Synonyms</b>	TGFB3; transforming growth factor, beta 3; transforming growth factor beta-3; TGF-beta-3; ARVD; TGF-beta3; FLJ16571;
<b>Gene ID</b>	7043
<b>mRNA Refseq</b>	NM_003239
<b>Protein Refseq</b>	NP_003230
<b>MIM</b>	190230
<b>UniProt ID</b>	P10600

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