

Recombinant human TGFB3, Active

Cat. No. TGFB3-1571H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGF-beta3 is a 27.2 kDa protein composed of two identical 118 amino acid polypeptide chains linked by a single disulphide bond.
Species	Human
Source	Nicotiana Benthamiana
Description	Recombinant human TGF-beta3 is a 27.2 kDa protein composed of two identical 118 amino acid peptide chains linked by a single disulphide bond. Transforming growth factor-beta is a family of five related cytokines that have been shown on a wide variety of normal and neoplastic cells, indicating the importance of these homo-dimer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF-beta (TGF-beta1, TGF-beta2 and TGF-beta3) signal through the same receptor and elicit similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodeling and wound healing.
Form	Recombinant human TGF beta-3 is lyophilized from a Tris HCl 0.05M buffer at pH 7.4.
Molecular Mass	27.2 kDa
AA Sequence	HHHHHHALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWWHEPKGYANFCSGPCP YLRSDTTHSTVLGLYNTLN PEASAPCCVPQDLEPLTILYYVGRTPKVEQLSNMNV KSCKCS

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Endotoxin	< 0.04 EU/μg protein (LAL)
Purity	>97% by SDS-PAGE gel
Storage	This lyophilized preparation is stable at 2-8°C for short term, long storage it should be kept at -20°C. Reconstituted protein should be stored in working aliquots at -20°C. Repeated freezing and thawing is not recommended.
Reconstitution	Centrifuge vial before opening. Lyophilized protein should be reconstituted in water to a concentration of 25-50 ng/μl. Due to the protein nature, dimers and multimers may be observed. At higher concentration the solubility may be reduced and multimers generated. Optimal concentration should be determined for specific application and cell lines.

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	P10600
Chromosome Location	14q24
Pathway	ALK1 signaling events, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;
Function	growth factor activity; identical protein binding; protein binding; contributes_to protein binding; protein heterodimerization activity; transforming growth factor beta binding; transforming growth factor beta receptor binding; type I transforming growth