

## Recombinant Human TGFB3, Animal Free

Cat. No. TGFB3-126H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	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. Human recombinant protein expressed in <i>Nicotiana benthamiana</i> . Recombinant human TGF-beta-3 contains a 6-His-tag at the N-terminal end, is produced by transient expression in non-transgenic plants and is purified by sequential chromatography (FPLC). This product contains no animal-derived components or impurities. Animal free product.
<b>Species</b>	Human
<b>Source</b>	<i>Nicotiana Benthamiana</i>
<b>Description</b>	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 remodelling and wound healing.
<b>Form</b>	Lyophilized from a Tris HCl 0.05M buffer at pH 7.4.
<b>Molecular Mass</b>	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.

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<b>AA Sequence</b>	HHHHHHALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWWHEPKGYGANFCSGPCP YLRADTTTSTVLGLYNTLN PEASAPCCVPQDLEPLTILYYVGRTPKVEQLSNMNV KSCCKCS
<b>Endotoxin</b>	< 0.04 EU ug protein (Lal=)
<b>Purity</b>	>97% by SDS-PAGE gel
<b>Applications</b>	Western blot, Immunogen
<b>Storage</b>	This lyophilized preparation is stable at 2-8o C for short term, long storage it should be kept at -20oC. Reconstituted protein should be stored in working aliquots at –20°C and it is recommended to add a carrier protein (0.1% HSA or BSA). Repeated freezing and thawing is not recommended.
<b>Reconstitution</b>	Lyophilized protein should be reconstituted in water to a concentration of 25-50 ng / ul. Due to the protein nature, dimmers and multimers may be observed. Upon reconstitution, It can be stored in working aliquots at –20°C for future use. Optimal reconstitution please follow batch Quality Control sheet instructions.

## 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

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<b>mRNA Refseq</b>	NM_003239
<b>Protein Refseq</b>	NP_003230
<b>MIM</b>	190230
<b>UniProt ID</b>	P10600
<b>Chromosome Location</b>	14q24
<b>Pathway</b>	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;
<b>Function</b>	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 factor beta receptor binding; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding;

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