Active Recombinant Human TGFB3, Animal Free

Cat. No. TGFB3-128H **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. Human recombinant protein expressed in Nicotiana benthamiana. 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.
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-dimmer 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.
Form	Lyophilized from a Tris HCl 0.05M buffer at pH 7.4.
Bio-activity	The biological activity of TGF-beta3 is measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells proliferation. ED50 ≤ 50ng/ml

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Molecular Mass	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.
AA Sequence	HHHHHHALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYYANFCSGPCP YLRSADTTHSTVLGLYNTLN PEASASPCCVPQDLEPLTILYYVGRTPKVEQLSNMVV KSCKCS
Endotoxin	< 0.04="" eu="" ug="" protein="" (lal="">
Purity	>97% by SDS-PAGE gel
Applications	Cell culture, Western blot
Storage	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.
Reconstitution	Lyophilized protein should be reconstituted in water to a concentration of 5-25 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

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;

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Gene ID	7043
mRNA Refseq	NM_003239
Protein Refseq	NP_003230
MIM	190230
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 factor beta receptor binding; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding;

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