

Recombinant Human TGFB3, Animal Free

Cat. No. TGFB3-126H **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-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.

Form Lyophilized from a Tris HCl 0.05M buffer at pH 7.4.

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.

 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

AA Sequence	HHHHHHALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYGANFCSGPCP YLRSA DTTHSTVLGLYNTLN PEASASPCCVPQDLEPLTILYYVGRTPKVEQLSNMVV KSCKCS
Endotoxin	< 0.04="" eu="" ug="" protein="" (lal="">
Purity	>97% by SDS-PAGE gel
Applications	Western blot, Immunogen
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 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

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

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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;