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TGF-beta Protein (TGFb)

Alternative Name:

Background:



Overview		
Quantity:	0.002 mg	
Target:	TGF-beta (TGFb)	
Origin:	Human	
Source:	Hi-5 Cells	
Protein Type:	Recombinant	
Biological Activity:	Active	
Product Details		
Sequence:	ALDAAYCFRN VQDNCCLRPL YIDFKRDLGW KWIHEPKGYN ANFCAGACPY LWSSDTQHSR VLSLYNTINP EASASPCCVS QDLEPLTILY YIGKTPKIEQ LSNMIVKSCK CS	
Characteristics:	The ED50 was determined by its ability to inhibit the mouse IL - 4 - dependent proliferation of mouse HT - 2 cells. The ED50 was found to be < 0.2 ng/mL, corresponding to a specific activity of > 5×10^6 units/mg.	
Purity:	< 98 % by SDS-PAGE gel and HPLC analyses.	
Endotoxin Level:	Endotoxin level is less than 0.1 ng per μg (1 EU/μg).	
Target Details		
Target:	TGF-beta (TGFb)	

The three mammalian isoforms of TGF-beta, TGF-beta1, beta2, beta3, signal through the same

receptor and elicit similar biological responses. They are multifunctional cytokines that regulate

TGF beta (TGFb Products)

cell proliferation, growth, differentiation and motility as well as synthesis and deposition of the extracellular matrix. They are involved in various physiological processes including embryogenesis, tissue remodeling and wound healing. They are secreted predominantly as latent complexes which are stored at the cell surface and in the extracellular matrix. The release of biologically active TGF-beta isoform from a latent complex involves proteolytic processing of the complex and /or induction of conformational changes by proteins such as thrombospondin-1. TGF-beta2 has been shown to exert suppressive effects on IL-2 dependent T-cell growth, and may also have an autocrine function in enhancing tumor growth by suppressing immuno-surveillance of tumor development. Recombinant human TGF-beta2 is a 25.0 kDa protein composed of two identical 112 amino acid polypeptide chains linked by a single disulfide bond.

NCBI Accession:

NP_001129071

OMIM:

208022653

UniProt:

P61812

Pathways:

EGFR Signaling Pathway, Cellular Response to Molecule of Bacterial Origin, Stem Cell

Maintenance, Glycosaminoglycan Metabolic Process, Regulation of Muscle Cell Differentiation,

Cell-Cell Junction Organization, Ribonucleoside Biosynthetic Process, Skeletal Muscle Fiber

Development, Regulation of Carbohydrate Metabolic Process, Protein targeting to Nucleus

Application Details

Restrictions: For Research Use only

7042

Handling

Gene ID:

Format:	Lyophilized	
Handling Advice:	As with any protein, exposing TGF Beta recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.	
Storage:	-20 °C	
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted TGF Beta is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.	

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Expiry Date:

24 months