

BDNF, recombinant Human/Murine/Rat

Cat # NB-50-0029-2 Size: 2µg Cat # NB-50-0029-10 Size: 10µg Cat # NB-50-0029-50 Size: 50µg Cat # NB-50-0029-100 Size: 100µg Cat # NB-50-0029-250 Size: 250µg Cat # NB-50-0029-500 Size: 500µg Cat # NB-50-0029-1 Size: 1mg (provided as 2x500µg)

Description

The three mammalian isoforms of TGF- β , TGF- β 1, β 2, and β 3, signal through the same receptor and elicit similar biological responses. They are multifunctional cytokines that regulate 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 the biologically active TGF- β isoform from a latent complex involves proteolytic processing of the complex and/or induction of conformational changes by proteins such as thrombospondin-1. TGF- β 1 is the most abundant isoform secreted by almost every cell type. It was originally identified for its ability to induce phenotypic transformation of fibroblasts, and recently it has been implicated in the formation of skin tumors. Recombinant Human TGF- β 1 is a 25.0 kDa protein composed of two identical 112 amino acid polypeptide chains linked by a single disulfide bond.

Product Information

Source: Synonyms:	CHO cells Transforming Growth Factor-β1, Differentiation inhibiting factor,
Synonyms.	Cartilage-inducing factor
AA Sequence:	(monomer) ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS
Calculated M.W.:	25 kDa

Endotoxin level is < 0.1 ng/ug of protein (< 1 EU/ug)

Storage & Handling

Handling:Centrifuge vial prior to opening. Do not vortex after reconstitution.Avoid repeated freeze-thaw cycles.



Recons	titution:	Initially reconstitute in water to 0.1-1.0 mg/ml. Store at 2°C to 8°C for up to 1 week or prepare for extended storage.			
Extend	ed Storage:	After initial reconstitution, further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA). Store working aliquots at - 20°C to -80°C.			
	Product Form		Temperature	Storage Time	
	Lyophilized		-20°C to -80°C	see date on label	

Lyophilized	-20°C to -80°C	see date on label
Lyophilized	4°C	6 months
Lyophilized	Room Temperature	1 month
Reconstituted	2°C to 8°C	1 week
Extended Storage	-20°C to -80°C	12 months

Biological activity

The ED₅₀ was determined by TGF- β 1's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is \leq 0.05 ng/ml, corresponding to a specific activity of \geq 2 x 10⁷ units/mg.

Target

 Accession Number:
 P01137

 Gene ID:
 7040

For reference only For Research Use Only. Not for Diagnostic or Therapeutic Use.