

32-1763: TGF b 1 Recombinant Protein

Alternative Name : Transforming growth factor beta-1,TGF-beta-1,CED,DPD1,TGFB,TGF-b 1,LAP,TGFB1.

Description

Source : CHO cells. TGFB1 Human Recombinant produced in CHO cells is a homodimeric polypeptide chain containing 2 x 112 amino acids and having a total molecular mass of 25kDa. The TGFB1 is purified by proprietary chromatographic techniques. Transforming growth factor betas (TGBetas) mediate many cell-cell interactions that occur during embryonic development. Three TGBetas have been identified in mammals. TGBeta1, TGBeta2 and TGBeta3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecule.

Product Info

Amount :	10µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	Lyophilized from a sterile filtered solution containing 0.1 % trifluoroacetic acid (TFA) And trehalose (1:20 protein to Trehalose ratio).
Storage condition :	Lyophilized TGFB1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFB1 Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid :	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS.

Application Note

It is recommended to reconstitute the lyophilized TGFB1 in sterile 10mM HCL at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependent inhibition of IL-4-induced proliferation of mouse HT-2 cells is less than 0.05ng/ml, corresponding to a specific activity of 2×10^7 units/mg.

