

CHAMOT

Recombinant TGF beta 1, Human, GMP

CM088-100HPG

CM088-1000HPG



CHAMOT

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Specialize In Cytokines



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Recombinant TGF beta 1, Human, GMP

Catalog#	CM088-100HPG	CM088-1000HPG
Size	100 ug	1 mg

Product Specifications

Background The transforming growth factor beta (TGF beta) family of cytokines are ubiquitous, multifunctional, and essential to survival. They play the central roles in growth, development, inflammation, repair, and host immunity. The mammalian TGF beta isoforms (TGF beta 1, beta 2 and beta 3) are secreted as potential precursors and possess a variety of cell surface receptors and produces at least two mediate signal transductions.

Synonyms tumor necrosis factor alpha, TNFSF2, Cachectin, Differentiation-inducing factor (DIF), Necrosin, Cytotoxin, TNS_x005f1 F1A

Uniprot ID P01137

Molecular Weight The protein has a calculated MW of 13.7 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

Expression System Escherichia coli

Purity >98% as determined by SDS-PAGE analysis.

Activity Measure by its ability to inhibit the IL-4 dependent proliferation in HT-2 cells. The ED₅₀ for this effect is <0.1 ng/mL. The specific activity of recombinant human TGF beat 1 is approximately >5 x 10⁷ IU/mg. Measure by its ability to induce proliferation in MCF-7 cells. The ED₅₀ for this effect is <3.2 ng/mL.

Endotoxin Level <0.05 EU per 1 µg of the protein by the LAL method.

Protein Sequence MALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSK VLALYNQHNPASAAAPCCVPQALEPLPIVYVGRKPKVEQLSNMIVRSCKCS with polyhistidine tag at the C-terminus.

Form Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

Application Cell Culture

Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile 10 mM HCl to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

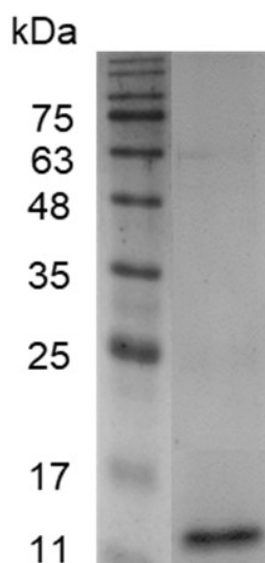
Stability & Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Shipping

Blue Ice

Scientific Data



SDS- PAGE analysis of GMP human TGF beta 1

For Research Use or Further Manufacturing Only

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