

# 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\_x005f\_1 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 ED<sub>50</sub> for this effect is <0.1 ng/mL. The specific activity of recombinant human TGF beat 1 is approximately >5 x 10<sup>7</sup> IU/mg. Measure by its ability to induce proliferation in MCF-7 cells. The ED<sub>50</sub> 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

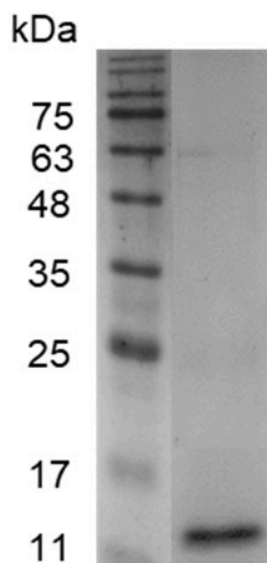
### Stability & Storage

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

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