

CHAMOT

Recombinant TNF alpha, Human, GMP

CM046-100HPG

CM046-1000HPG



CHAMOT

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Recombinant TNF alpha, Human, GMP

Catalog#	CM046-100HPG	CM046-1000HPG
Size	100 ug	1 mg

Product Specifications

Background Tumor necrosis factor alpha (TNF alpha) stimulates the acute phase of the immune response. In response to a pathogen, TNF alpha is one of the first to be released and can apply its effects in many organs. TNF alpha stimulates the release of corticotrophic releasing hormone, suppresses appetite, and induces fever, in the hypothalamus. TNF increase vasodilation and loss of vascular permeability, it helps recruit lymphocyte, neutrophil, and monocyte to the inflammation site by regulating chemokine release.

Synonyms tumor necrosis factor beta, TNFSF1B, Lymphotoxin-alpha (LT- α), LTA

Uniprot ID P01375

Molecular Weight The protein has a calculated MW of 18.3 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

Expression System Escherichia coli

Purity >97% as determined by SDS-PAGE analysis.

Activity Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED₅₀ for this effect is < 0.1 ng/mL. The specific activity of recombinant human TNF alpha is approximately $\geq 1 \times 10^7$ IU/mg, which is calibrated against the human TNF Alpha WHO International Standard (NIBSC code: 12/154).

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

Protein Sequence MVRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIY SQVLFKGQGCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGV FQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL with polyhistidine tag at the C-terminus.

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

Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O 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

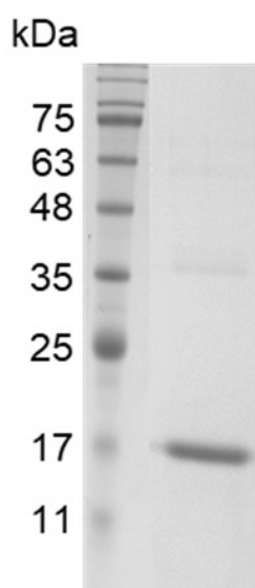
Stability & Storage

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 TNF alpha

For Research Use or Further Manufacturing Only

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