
Catalog Number:	103-02
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing 171 amino acids.
Quantity:	5 μ g/20 μ g/1000 μ g
AA Sequence:	LPGVGLTPSA AQTARQHPKM HLAHSTLKPA AHLIGDPSKQ NSLLWRANTD RAFLQDGFSL SNNLLVPTS GIYFVYSQVV FSGKAYSPKA TSSPLYLAHE VQLFSSQYPF HVPLLSSQKM VYPGLQEPWL HSMYHGAAFQ LTQGDQLSTH TDGIPHLVLS PSTVFFGAFA L
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cytotoxicity assay using murine L929 cells is less than 5 pg/ml, corresponding to a specific activity of > 2.0 \times 10 ⁸ IU/mg in the presence of actinomycin D.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH7.4, with 0.02 % Tween-20.
Endotoxin:	Less than 0.1 EU/ μ g of rHuTNF- β /TNFSF1 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at \leq -20 $^{\circ}$ C . Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 $^{\circ}$C as supplied.● 1 month, 2 to 8 $^{\circ}$C under sterile conditions after reconstitution.● 3 months, -20 to -70 $^{\circ}$C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Tumor Necrosis Factor-beta/TNFSF1

TNF-beta, also known as lymphotoxin-alpha (LTalpha) and TNF-alpha are two structurally and functionally related proteins that bind to the same cell surface receptors (TNF RI and TNF RII) and produce a vast range of similar, but not identical effects. Mature TNF-beta/LTalpha and TNF-alpha share approximately 35% protein sequence homology, and the biologically active secreted forms of both proteins are trimers. Human and mouse TNF-beta/LTalpha share approximately 74% homology in their amino acid sequence and exhibit cross-species activity. Soluble TNF-beta/LTalpha is a homotrimer in solution. Secreted TNF-beta/LTalpha also complexes with the membrane associated LTbeta/TNFSF3 to generate two types of heterotrimers, LTalpha1/beta2 and LTalpha2/beta1.