

Product Data Sheet

Recombinant Mouse TNF- α (carrier-free)

| 575202 / 10 μg 575204 / 25 μg 575206 / 100 μg 575208 / 500 μg | (mu 0.4) 66) 0.3- | |
|--|---|--|
| Mouse TNF- α , amino acids Leu80-Leu235 (Accession # NM_013693), was expressed in <i>E. coli</i> . | Density | |
| The 156 amino acid recombinant protein has a predicted molecular mass of 17,257 Da. The DTT-reduced and non-reduced protein migrate at approximately 16 kD by SDS-PAGE. The N-terminal amino acid is Leu. | 0.0 0.000010.0001 0.001 0.01 0.1 1 10 | |
| Purity is >98%, as determined by Coomassie stained SDS-PAGE. | ng/ml | |
| Endotoxin level is <0.1 EU/ μ g (<0.01ng/ μ g) protein as determined by the LAL method. | Cytotoxic effect on L929 mouse fibroblast cells induced by mouse TNF- α in the presence of actinomycin D. | |
| The ED ₅₀ is 0.010-0.020 ng/ml, corresponding to a specific activity of 5-10 $X10^7$ units/mg, as determined by a dose dependent stimulation of L929 cells treated with actinomycin D. | | |
| 10-100µg sizes are bottled at 200µg/ml. 500µg and larger sizes are bottled at the concentration indicated on the vial. | | |
| 0.22 µm filtered protein solution is in 10mM NaH ₂ PO ₄ , 150mM NaCl, pH 7.2. | | |
| Unopened vial can be stored at 4°C for three months, at -20°C for six months, or results, quick spin vial prior to opening. Stock solutions should be prepared at r containing carrier protein such as 1% BSA or HSA or 10% FBS. For long terms vials and store in a manual defrost freezer. Avoid repeated freeze/thaw cycle | or at -70°C for one year. For maximum to less than 10µg/mL in buffer storage, aliquot into polypropylene s. | |
| | 575202 / 10 μg 575204 / 25 μg 575208 / 500 μg Mouse TNF-α, amino acids Leu80-Leu235 (Accession # NM_013693), was expressed in <i>E. coli</i> . The 156 amino acid recombinant protein has a predicted molecular mass of 17,257 Da. The DTT-reduced and non-reduced protein migrate at approximately 16 kD by SDS-PAGE. The N-terminal amino acid is Leu. Purity is >98%, as determined by Coomassie stained SDS-PAGE. Endotoxin level is <0.1 EU/μg (<0.01ng/μg) protein as determined by the LAL method. The ED ₅₀ is 0.010-0.020 ng/ml, corresponding to a specific activity of 5-10 X10 ⁷ units/mg, as determined by a dose dependent stimulation of L929 cells treated with actinomycin D. 10-100μg sizes are bottled at 200μg/ml. 500μg and larger sizes are bottled at tf 0.22 μm filtered protein solution is in 10mM NaH ₂ PO ₄ , 150mM NaCl, pH 7.2. Unopened vial can be stored at 4°C for three months, at -20°C for six months, or results, quick spin vial prior to opening. Stock solutions should be prepared at r containing carrier protein such as 1% BSA or HSA or 10% FBS. For long terms vials and store in a manual defrost freezer. Avoid repeated freeze/thaw cycle | |

Applications:

| Applications: | Bioassay |
|-------------------------|--|
| Recommended Usage: | Use when high specific biological activity is required. |
| Application References: | 1. Alcaide P, et al. 2012. <i>J. Immunol.</i> 188:1421. PubMed 2. Azcutia V, et al. 2012. <i>J. Immunol.</i> 189:2553. PubMed 3. Theiss AL, et al. 2009. <i>Mol. Biol. Cell.</i> 20:4412. PubMed |

Description: TNF-α is secreted by macrophages, monocytes, neutrophils, T-cells (principally CD4⁺), and NK-cells. Many transformed cell lines also secrete TNF-α. TNF-α forms multimeric complexes; stable trimers are most common in solution. A 26 kD membrane form of TNF-α has also been described. TNF-α binding to surface receptors elicits a wide array of biologic activities including: cytolysis and cytostasis of many tumor cell lines *in vitro*, hemorraghic necrosis of tumors *in vivo*, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils.





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