

Active Recombinant Mouse Tnf Protein (152 aa)

Cat. No. Tnf-148T Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnf Protein (152 aa) without tag was expressed in P. pastoris.
Species	Mouse
Source	P.pastoris
ProteinLength	152
Description	Sharing 79% sequence identity with human Tumor Necrosis Factor-alpha (hTNF- α), mouse Tumor Necrosis Factor-alpha (mTNF- α) is a cytokine mainly expressed by immune cells. A type II transmembrane protein, TNF- α is further proteolytically processed to a soluble form. The trimeric active TNF- α then exerts its diverse biological properties including gapoptosis, inflammation, autoimmunity and cell proliferation by binding to TNF Receptor 1 and 2.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.01 ng/mL, measured by cytotoxicity assay using L929 cells, corresponding to a specific activity of $>1 \times 10^8$ units/mg.
Molecular Mass	17kDa, observed by reducing SDS-PAGE.
AA Sequence	SQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNQLVVPADGLYLIVY SQVLFKGGQCPDYVLLTHTVSRFAISYQEKVNLLSAVKSPCPKDTPEGAELKPWYEP IYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFGVIAL

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Endotoxin	< 1 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by reducing SDS-PAGE.
Storage	Lyophilized recombinant mouse Tumor Necrosis Factor-alpha (rmTNF-α) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmTNF-α should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [<i>Mus musculus</i>]
Official Symbol	Tnf
Synonyms	TNF; tumor necrosis factor; TNF-a; TNF alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; DIF; Tnfa; TNFSF2; Tnfsf1a; TNFalpha; TNF-alpha; MGC151434;
Gene ID	21926
mRNA Refseq	NM_013693
Protein Refseq	NP_038721
UniProt ID	P06804

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