

Rev04  
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**DATASHEET**

# TNF- $\alpha$ , Mouse (P. pastoris-expressed)

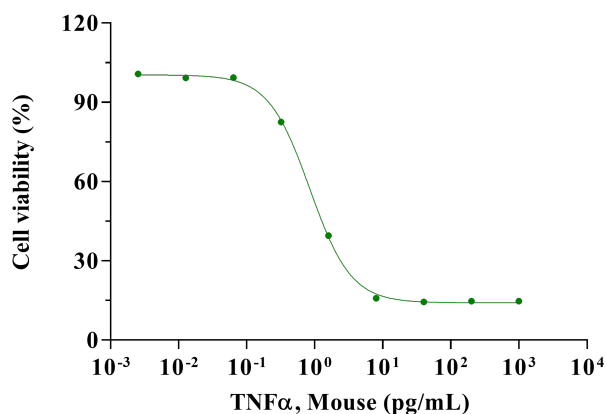
Cat. No.: Z02918

## Product Introduction

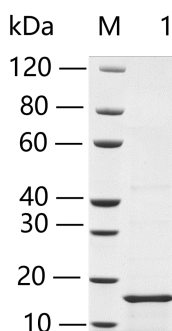
<b>Species</b>	Mouse
<b>Protein Construction</b>	<b>TNF-<math>\alpha</math> (Ser84-Leu235)</b> Accession # P06804
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 1 EU/ $\mu$ g of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 0.01 ng/ml, measured by cytotoxicity assay using L929 cells, corresponding to a specific activity of > 1.0 $\times$ 10 <sup>8</sup> units/mg.
<b>Expression System</b>	P. pastoris
<b>Apparent Molecular Weight</b>	~17 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 $\mu$ g/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples

ED<sub>50</sub> < 0.01 ng/ml, measured by cytotoxicity assay using L929 cells, corresponding to a specific activity of > 1.0 × 10<sup>8</sup> units/mg.



Lane 1: 2  $\mu$ g of TNF- $\alpha$ , Mouse (P. pastoris-expressed), reducing (R)  
 > 95% as analyzed by SDS-PAGE



## Background

**Target Background :** Tumor necrosis factor alpha (TNF- $\alpha$ ) is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. Mouse TNF- $\alpha$  occurs as a membrane-anchored form. The naturally-occurring form of TNF- $\alpha$  is glycosylated, but non-glycosylated recombinant TNF- $\alpha$  has comparable biological activity. The biologically active native form of TNF- $\alpha$  is reportedly a trimer. Human and mouse TNF- $\alpha$  show approximately 79% homology at the amino acid level and crossreactivity between the two species.

**Synonyms :** TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Cachectin; DIF; TNFA; TNFSF2

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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