

DATASHEET Version 20181206

TNF- α , Mouse (P. pastoris-expressed)

Cat. No.: Z02918-100

Size: 100.0 ug

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

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 ^[1]. A type II transmembrane protein, TNF- α is further proteolytically processed to a soluble form ^[2]. The trimeric active TNF- α ^[3] then exerts its diverse biological properties including gapoptosis, inflammation, autoimmunity and cell proliferation by binding to TNF Receptor 1 and 2 ^[4]

Recombinant mouse Tumor Necrosis Factor-alpha (rmTNF- α) produced in *P.pastoris* is a fully biologically active polypeptide chain of 152 amino acids with a molecular mass of 17 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 SQNSSDKPVA HVVANHQVEE QLEWLSQRAN ALLANGMDLK 00041 DNQLVVPADG LYLVYSQVLF KGQGCPDYVL LTHTVSRFAI 00081 SYQEKVNLLS AVKSPCPKDT PEGAELKPWY EPIYLGGVFQ 00121 LEKGDQLSAE VNLPKYLDFA ESGQVYFGVI AL Source: P. pastoris
Species: Mouse

Biological Activity: ED₅₀<0.01ng/ml, measured by cytotoxicity assay using L929 cells, corresponding to a specific activity of >1 x 10^8 units/mg.

Molecular Weight: 17kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by reducing SDS-PAGE.

Endotoxin Level: <1 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant mouse Tumor Necrosis Factor-alpha (rmTNF- α) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmTNF- α should be stable up to 1 week at 4°C or up to 2 months at -20°C.