

CHASELECTION**Recombinant Mouse TNF-alpha, Tag Free**

货号(Catalog Number): CY173FXXXX(L)

别名(synonym):

APC1 protein; Cachectin; Cachetin; DIF; TNF; TNF, monocyte-derived; TNFA; TNF-A; TNFalpha

来源(Source):

Human embryonic kidney cell, HEK293-derived mouse TNF-alpha protein

蛋白结构 (Structure):

该蛋白不含标签

基因 ID: P06804**氨基酸序列:**

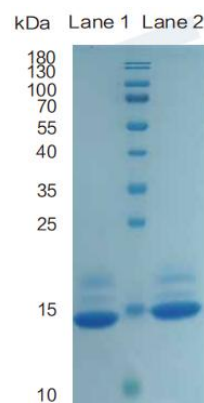
Leu80-Leu235

分子量大小(MW):

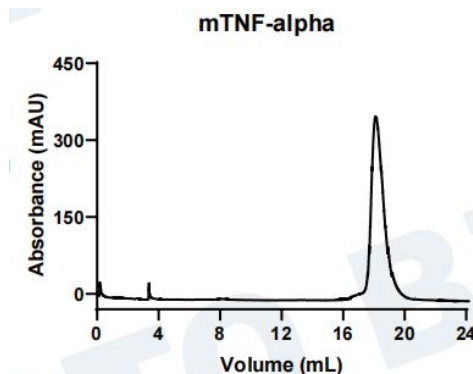
17 kDa

纯度 (Purity):

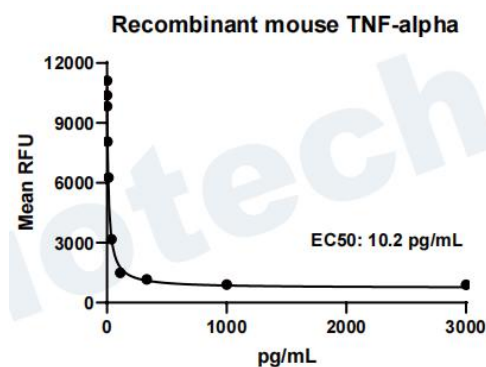
> 95%, determined by SDS-PAGE

SDS-PAGE

4 ug/lane of recombinant mouse TNF-alpha was resolved with SDS-PAGE under non-reducing (Lane 1) and reducing (Lane 2) conditions and visualized by Coomassie Blue staining.

Gel-filtration

Size-exclusion chromatography of recombinant mouse TNF-alpha protein (280 nm absorbance)

活性检测 (Biological Activity):

Recombinant mouse TNF-alpha inhibits cell proliferation of L-929 mouse fibroblast cells.

内毒素含量 (Endotoxin):

<0.010 EU per 1 ug of the protein by the LAL method

制剂(Formulation):

Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

储存与运输(Storage):

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 °C as supplied.

Shipping with dry ice



产品背景介绍（Production）：

Tumor necrosis factor alpha (TNF-alpha), also known as cachectin and TNFSF2, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, immune system development, apoptosis, and lipid metabolism. Mouse TNF-alpha consists of a 35 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 179 aa extracellular domain (ECD). Within the ECD, mouse TNF-alpha shares 94% aa sequence identity with rat and 70%-77% with bovine, canine, cotton rat, equine, feline, human, porcine, rat, and rhesus TNF-alpha. TNF-alpha is produced by a wide variety of immune, epithelial, endothelial, and tumor cells. TNF-alpha is assembled intracellularly to form a noncovalently linked homotrimer which is expressed on the cell surface. Cell surface TNF-alpha can induce the lysis of neighboring tumor cells and virus infected cells, and it can generate its own downstream cell signaling following ligation by soluble TNFR I. Shedding of membrane bound TNF-alpha by TACE/ADAM17 releases the bioactive cytokine, a 55 kDa soluble trimer of the TNF-alpha extracellular domain. TNF-alpha binds the ubiquitous 55-60 kDa TNF RI and the hematopoietic cell-restricted 80 kDa TNF RII, both of which are also expressed as homotrimers.

