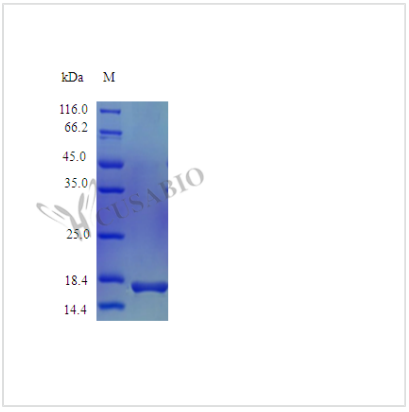
Recombinant Mouse Tumor necrosis factor protein (Tnf), partial (Active)

Product Code	CSB-AP003471MO
Abbreviation	Recombinant Mouse Tnf protein, partial (Active)
Uniprot No.	P06804
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 μm filtered PBS, pH 7.2
Product Type	Tumor Necrosis Factor
Immunogen Species	Mus musculus (Mouse)
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by a cytotoxicity assay using murine L929 cells is less than 0.1 ng/ml, corresponding to a specific activity of >1.0x10^7 IU/mg in the presence of actinomycin D.
Purity	>98% as determined by SDS-PAGE.
Sequence	M+LRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFKGQGC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YLDFAESGQV YFGVIAL
Research Area	Cancer
Source	E.coli
Target Names	Tnf
Expression Region	80-235aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	17.4 kDa
Protein Length	Partial
PubMed ID	2836146; 3898078; 2419912; 2989794; 3040015; 3684584; 7560085; 9089109; 14656967; 2777790; 2268312; 3349526; 10089307
Image	



Description

This Recombinant Mouse Tnf protein is a powerful tool for cancer research. Tnf, also known as Tumor necrosis factor or TNF-alpha, plays a crucial role in inflammation, immune regulation, and cancer biology in mice.

Produced using an E. coli expression system, our protein encompasses amino acids 80 to 235, representing a partial length of the Tnf sequence. With a tag-free design, the protein retains its native structure, ensuring accurate functionality and avoiding potential interference in downstream applications. Its purity exceeds 98%, as determined by rigorous SDS-PAGE and HPLC analysis, guaranteeing reliable and consistent results.

Our Recombinant Mouse Tnf protein exhibits full biological activity when compared to the standard, allowing for accurate investigations into its role in cancer development and immune responses. The lyophilized powder form provides stability and convenience during storage and handling.

Endotoxin

Less than 1.0 EU/μg as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.