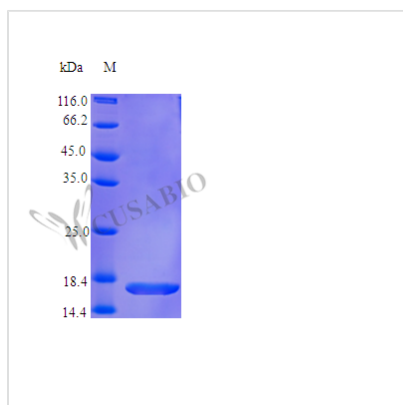




# Recombinant Human Tumor necrosis factor protein (TNF), partial (Active)

<b>Product Code</b>	CSB-AP002151HU
<b>Abbreviation</b>	Recombinant Human TNF protein, partial (Active)
<b>Uniprot No.</b>	P01375
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered PBS, pH 7.0
<b>Product Type</b>	Tumor Necrosis Factor
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED50 as determined by a cytotoxicity assay using murine L929 cells is less than 0.01 ng/ml, corresponding to a specific activity of $>1.0 \times 10^7$ IU/mg in the presence of actinomycin D.
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Sequence</b>	MRKR+KPVAHV VANPQAEGQL QWLNRRANAL LANGVELRDN QLVVPSEGLY LIYSQVLFGK QGCPSTHVLL THTISRIAVS YQTKVNLLSA IKSPCQRETP EGAEAKPWYE PIYLGGVFQL EKGDRLSAEI NRPDYLDFAE SGQVYFGIIA F
<b>Research Area</b>	Cancer
<b>Source</b>	E.coli
<b>Target Names</b>	TNF
<b>Expression Region</b>	87-233aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag-Free
<b>Mol. Weight</b>	16.9 kDa
<b>Protein Length</b>	Partial
<b>PubMed ID</b>	3555974; 6392892; 3883195; 2995927; 3856324; 3932069; 8499947; 10202016; 14656967; 15489334; 8631363; 8597870; 10205166; 2009860; 1402651; 9034191; 10369255; 16829952; 16829951; 22517918; 23396208; 2922050; 1964681; 2551905; 9488135; 9442056; 12746914; 12

**Image**



## Description

Recombinant Human Tumor necrosis factor protein (TNF) (Active) is a partial-length protein expressed without tag in the E.coli. Its expression region corresponds to 87-233aa of human TNF protein. Its purity was determined by SDS-PAGE and reached up to 98% and presented a molecular mass band of 16.4 kDa on the gel. It was validated to be biologically active through functional ELISA analyses. The endotoxin of this recombinant protein is less than 1.0 EU/μg as determined by LAL method. This recombinant LTA proteins in-stock are available.

TNF is a multifunctional proinflammatory cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and involved in the regulation of a wide spectrum of biological processes, such as cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in various diseases, including autoimmune diseases, insulin resistance, and cancer.

## 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.