



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

<b>Product Code</b>	CSB-YP023955HU
<b>Relevance</b>	Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Upregulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective. Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder cancer cell line. The TNF intracellular domain (ICD) form induces IL12 production in dendritic cells.
<b>Abbreviation</b>	Recombinant Human TNF protein, partial (Active)
<b>Storage</b>	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.
<b>Uniprot No.</b>	P01375
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human TNF at 5 µg/mL can bind Human TNFR2 protein (CSB-MP023978HU2). The EC50 is 3.470-4.107 ng/mL.
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	VRSSSRTPSDKPVAVHVVANPQAEGLQWLNRRANALLANGVELRDNQLVVP SEGLYLIYSQVLFKGGQCPSTHVLLTHTISRIVSYQTKVNLLSAIKSPCQRETP EGAEAKPWYEPYIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL
<b>Research Area</b>	Immunology
<b>Source</b>	Yeast
<b>Target Names</b>	TNF
<b>Expression Region</b>	77-233aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

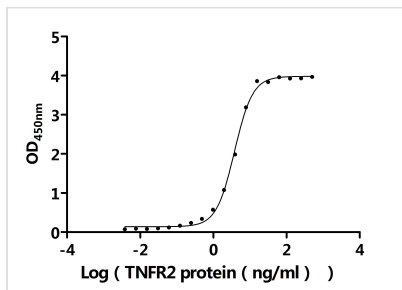


**Tag Info** N-terminal 6xHis-tagged

**Mol. Weight** 19.4 kDa

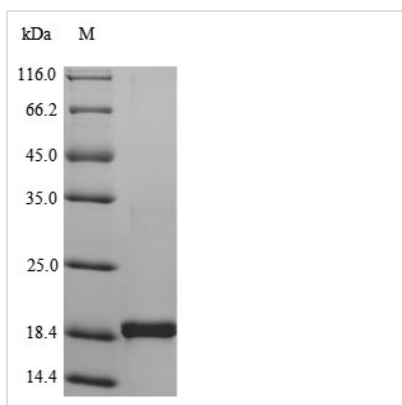
**Protein Length** Partial

**Image**



**Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human TNF at 5  $\mu$ g/ml can bind Human TNFR2 protein (CSB-MP023978HU2). The EC<sub>50</sub> is 3.470-4.107 ng/mL.



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Shelf Life**

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