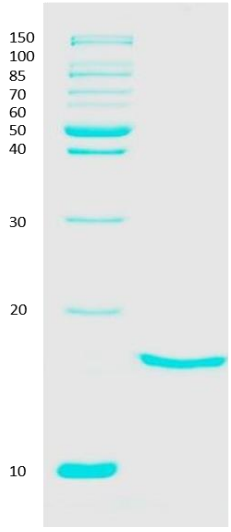
Recombinant Human TNF α Protein (Tag free)

Tumor necrosis factor-α (TNF-α) also known as cachectin, is a pleiotropic cytokine secreted mainly by monocytes and macrophages. It is a trimetric protein encoded within the major histocompatibility complex. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-α converting Genzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. TNF-α plays a major role in antitumor activity, inflammation, immune system development, apoptosis, anorexia, cachexia, septic shock, viral replication and lipid metabolism. TNF-α also shows antiviral effects against both DNA and RNA Viruses and it induces production of several other cytokines.

Product Details

Catalog no.	RTNF002
Molecular weight	17kDA
Amino acid sequence (86-233)	DKPVAHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGQGCPSTHVLLTHTI SRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGII AL
Host	E.coli
Formulation	10mM Tris-HCl, pH 8.5 + 0.1% Glucose
Conjugate/ Tag	Tag free
Purity	> 95% Purity, purified by Ni NTA and determined by SDS-PAGE
Form	Liquid/ Lyophilized
Applications	Functional studies, drug discovery, protein for research purposes
Storage	Store at -20ºC and avoid freeze thaw. Stable for 12 months from the date of receipt if kept at recommended temperature
Suggested working dilution	The optimal concentration should be determined for each specific application.

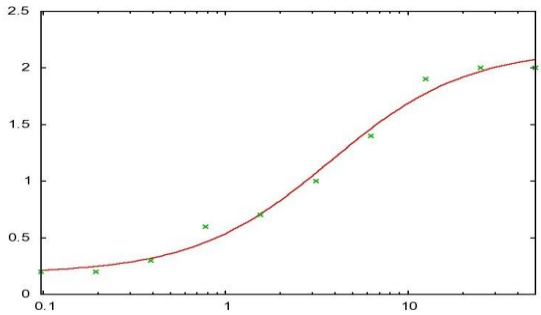
SDS PAGE Gel image of TNF-α tag free protein



TNF-α protein purified from E. coli showing prominent band at 17 kD

TNF-α protein (15% SDS-PAGE)

Quality control assay



Human TNF alpha Tag free (Cat. No. **#RTNF002)** induces cytotoxicity effect on the L929 cells in the presence Actinomycin D. The EC50 for this effect is 1-0.3ng/ml (Routinely tested)