
Recombinant Human TNF alpha Protein

Catalog Number: 230-31019-50

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/12/2024

Source

Species	Human
Accession Number	P01375
Gene Symbols	TNF, TNFA
Synonyms	Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2 (TNF-a).
Expressed Region	Val77-Leu233

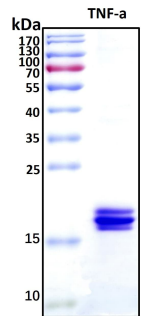
Preparation

Expression System	HEK293 cells
Tag	C-terminal His-tag
Purity	>95%
Molecular Weight	Recombinant protein product has a calculated molecular mass of 17 kDa.
Endotoxin Level	< 0.5 EU per ?g of the protein as determined by the LAL method

Specifications

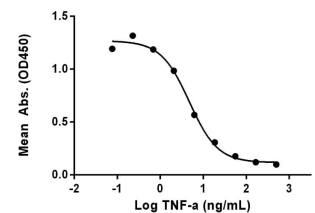
Format	Liquid
Formulation	Supplied as a 0.2 µm filtered solution in 1x PBS (pH 7.4) with 1% mannitol and 5% trehalose
Concentration	Refer to the label on the vial for the specific concentration, determined by the Pierce BCA Protein Assay Kit.

SDS-PAGE Image



Activity

Decreasing cell viability significantly. Measured in a cytotoxicity assay using MCF?7 human breast cancer cells. The EC50 for this effect is 4.7 ng/mL.



Shipping

The product is shipped with ice packs. Upon arrival, immediately store it at the temperature recommended below.

Storage/Stability

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the liquid protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store at -20°C or -80°C in appropriate aliquots.
- Generally, the shelf life is up to 6 months from the date of receipt at -20°C or -80°C under sterile conditions.