

## Product Data Sheet

# TNF-alpha, recombinant human protein

<b>Cat. No.:</b>	P1001
<b>Gene ID:</b>	7124
<b>Accession #:</b>	P01375
<b>Source:</b>	E.coli
<b>Formulation:</b>	Lyophilized from 0.22 µm filtered PBS (pH 7.4) with 5% trehalose
<b>M.Wt:</b>	17.4 kDa
<b>Alternate Names:</b>	TNFA, human TNF-alpha, Human TNF-α, Tumor Necrosis Factor-alpha
<b>Appearance:</b>	Lyophilized powder
<b>Storage:</b>	Store at -20°C or -70°C
<b>Shipping Condition:</b>	gel pack.
<b>Handling:</b>	
<b>Usage:</b>	Centrifuge the vial prior to opening. For Research Use Only! Not to be used in humans.



## Solvent & Solubility

Reconstitute in PBS (pH 7.4). Aliquot and stored at 4°C for 1 week or -20°C/-70°C for future use. Avoid repeated freezing and thawing cycles.

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	57.4713 mL	287.3563 mL	574.7126 mL
	5 mM	11.4943 mL	57.4713 mL	114.9425 mL
	10 mM	5.7471 mL	28.7356 mL	57.4713 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary

TNF-α, human recombinant, expressed in E. coli, is a 17.4 kDa protein containing 157 amino acid residues, a

	potent cytokine suitable for cell culture.	
IC <sub>50</sub> & Target		
In Vitro	<b>Cell Viability Assay</b>	
	Preparation method:	
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Liu X, Zhang X, et al. "Caspase recruitment domain family member 10 regulates carbamoyl phosphate synthase 1 and promotes cancer growth in bladder cancer cells." J Cell Mol Med. 2019 Sep 29. PMID:31565867
2. Rossi A, Pakhomova ON, et al. "Mechanisms and immunogenicity of nsPEF-induced cell death in B16F10 melanoma tumors." Sci Rep. 2019 Jan 23;9(1):431. PMID:30674926

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## References

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX<sup>®</sup>BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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