

Tumor Necrosis Factor-Alpha Mutant Human Recombinant

Item Number	rAP-0763
Synonyms	TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2.
Description	Tumor Necrosis Factor-a Variant Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 151 amino acids and having a molecular mass of 16598 Dalton. The TNF-alpha Variant is purified by standard chromatographic techniques.
Uniprot Accession Number	P01375
Amino Acid Sequence	MRKRKPVAHV VANPQAEGQL QWLNRRANAL LANGVELRDNQLVVPSEGLY LIYSQVLFGK QGCPSTHVLL THTISRIAVS YQTKVNLLSA IKSPCQRETP EGAEAKPWYE PIYLGGVFQL EKGDRLSAEI NRPDYLDFAE SGQVYFGIIAF.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Tumor Necrosis Factor-a Variant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF-a Variant should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The protein was lyophilized after extensive dialysis against 0.5x PBS pH -7. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Tumor Necrosis Factor-alpha Variant in sterile 18MQ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by the cytotoxicity of murine L929 cells in the presence of Actinomycin D is < 0.05ng/ml, corresponding to a Specific Activity of 20,000,000 units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**