

Tumor Necrosis Factor-alpha Human Recombinant, HEK

Item Number	rAP-0757
Synonyms	TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2.
Description	TNF-a Human Recombinant produced in HEK cells is a glycosylated non-disulfide linked homotrimer, containing 157 and having total Mw of 17kDa. The TNF-a is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01375
Amino Acid Sequence	VRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRD-NQLVVPSEGLYLIYSQVLFGQGCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIL.
Source	HEK.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized TNF-a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF-a 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 TNF-a protein was lyophilized from 1mg/ml in 1xPBS. Greater than 95% as observed by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized TNF-a in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The specific activity was determined by the dose-dependent cytotoxicity of the TNF alpha sensitive cell line L-929 in the presence of Actinomycin D and is typically 0.05-0.5ng/ml.
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**