

Product Datasheet

Recombinant TNF- α , Human (P. pastoris-expressed) (orb1494608)

Description	Tumor Necrosis Factor-Alpha (TNF-alpha) plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune diseases. Besides inducing hemorrhagic necrosis of tumors, TNF has been found to be involved in tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, and autoimmune diseases including Crohn's disease, and rheumatoid arthritis as well as graft-versus-host disease. TNF alpha-1a is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. Recombinant human Tumor Necrosis Factor-Alpha (rhTNF-alpha) produced in Pichia pastoris is a glycosylated polypeptide chain of 157 amino acids. A fully biologically active molecule, rhTNF-alpha has a molecular mass of 17.4kDa analyzed by reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques at GenScript.
Endotoxins	< 1.0 EU/ μ g, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant human Tumor Necrosis Factor-Alpha (rhTNF-alpha) remains stable up to 12 months at -80°C from date of receipt. Upon reconstitution, rhTNF-alpha should be stable up to 4 weeks at 4°C or up to 6 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH ₂ O at 100 μ g/ml.
Protein Sequence	VRSSSR TPSDKPVAHV VANPQAEGQL QWLNRRANAL LANGVELRDN QLVVPSEGLY LIYSQVLFKG QGCPSTHVLL THTISRIAVS YQTKVNLLSA IKSPCQRETP EGAEAKPWYE PIYLGGVFQL EKGDRLSAEI NRPDYLDFAE SGQVYFGIIA L
Purity	> 95% by SDS-PAGE analysis.
Source	P. pastoris

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MW 17.4kDa, observed by reducing SDS-PAGE.

Expiration Date 6 months from date of receipt.

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