

Optimize Your Research

Recombinant Human Tumor Necrosis Factor-alpha, Variant protein

Code CD00806

Storage: This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Intended Use

This product is for research use only, not for use in diagnosis procedures. It is highly recommended to read this instruction entirely before the use.

Source

Escherichia coli.

Molecular Weight

Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containing 151 amino acids. Compared with the wild-type, rHuTNF- α Variant has an amino acid sequence (a.a.) deletion from a.a. 1-7, and the following a.a. substitutes Arg8, Lys9, Arg10 and Phe157 which is proven to have more activity and with less inflammatory side effect in vivo.

Purity

> 98 % by SDS-PAGE and HPLC analyses.

Biological Activity

Fully biologically active when compared to standard. The ED50 as determined by a cytotoxicity assay using Mouse L929 cells is less than 0.01 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^7$ IU/mg in the presence of actinomycin D.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.0.

Sequence

MRKRKPVAHV VANPQAEQQL QWLNRRANAL LANGVELRDN QLVVPSGLY LIYSQVLFKG QGCPSTHVLL THTISRIAVS YQTKVNLLSA IKSPCQRETP EGAEAKPWYE PIYLGGVFQL EKGDRLSAEI NRPDYLDFAE SGQVYFGIIA F

Endotoxin

Less than 1 EU/ μ g of rHu TNF- α , Variant as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 C. Further dilutions should be made in appropriate buffered solutions.

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