



SHANGHAI GENOMICS

Recombinant Human Tumor Necrosis Factor- α
Mutant
rHuTNF- α M

Catalog number:SG3110-13

Specifications and Use

- Source** ● *Escherichia coli*.
- Molecular Mass** ● 17kDa.
- Purity** ● > 97%, as determined by SDS-PAGE and HPLC method.
- Biological Activity** ● TNF- α M is fully biologically active when compared to standard. 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 2 x10⁷ IU/mg.
- Endotoxin Level** ● Less than 1EU/ μ g of rHuTNF- α M as determined by LAL method.
- Formulation** ● Lyophilized from a 0.2 μ m filtered solution in 15mMNa₂HPO₄, 0.3M NaCl , 15mMNaH₂PO₄, pH6.8.
- Solubility** ● It is recommended to reconstitute the lyophilized rHuTNF- α M in sterile ddH₂O to prepare a stock solution of no less than 100 μ g/ml of the cytokine.
- Stability** ● Lyophilized samples are stable for greater than six months from date of receipt at -20 to -70 .
● Upon reconstitution, this cytokine can be stored under sterile conditions at 2-8 for one month or at -20 to -70 in a manual defrost freezer for three months without detectable loss of activity.
● Avoid repeated freeze-thaw cycles.
- Usage** ● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE

Human Tumor Necrosis Factor- α M

Human TNF α is a 17kD factor produced by macrophages, monocytes, neutrophils, CD4+ T cells and NK cells. A 26kD form of TNF α is expressed as a membrane bound molecule. TNF α is cytolytic and plays an important role in immune regulation. Dimers and trimers of TNF α have been observed. rHuTNF α M is higher biologically activity than rHuTNF α .