



## *Recombinant Human Tumor Necrosis Factor- $\alpha$*

rHuTNF- $\alpha$

**Catalog number: HZ-6526**

**Lot: CHI-121407**

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### *Specifications and Use*

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| <b>Source</b>              | <ul style="list-style-type: none"><li>● <i>Escherichia coli</i>.</li></ul>   |
| <b>Molecular Mass</b>      | <ul style="list-style-type: none"><li>● 17.5kDa.</li></ul>   |
| <b>Purity</b>              | <ul style="list-style-type: none"><li>● &gt; 97%, as determined by SDS-PAGE and HPLC method.</li></ul>   |
| <b>Biological Activity</b> | <ul style="list-style-type: none"><li>● The ED<sub>50</sub> as determined by the cytotoxicity of murine L929 cells in the presence of Actinomycin D is &lt; 0.05ng/ml, corresponding to a Specific Activity of 2 x10<sup>7</sup> IU/mg.</li></ul>  |
| <b>Endotoxin Level</b>     | <ul style="list-style-type: none"><li>● Less than 1EU/<math>\mu</math>g of rHuTNF-<math>\alpha</math> as determined by LAL method.</li></ul>   |
| <b>Formulation</b>         | <ul style="list-style-type: none"><li>● Lyophilized from a 0.2<math>\mu</math>m filtered solution in 15mMNa<sub>2</sub>HPO<sub>4</sub>, 0.3M NaCl , pH6.8.</li></ul>   |
| <b>Solubility</b>          | <ul style="list-style-type: none"><li>● It is recommended to reconstitute the lyophilized rHuTNF-<math>\alpha</math> in sterile ddH<sub>2</sub>O to prepare a stock solution of no less than 100<math>\mu</math>g/ml of the cytokine.</li></ul>  |
| <b>Stability</b>           | <ul style="list-style-type: none"><li>● Lyophilized samples are stable for greater than six months from date of receipt at -20 °C to -70 °C.</li><li>● Upon reconstitution, this cytokine can be stored under sterile conditions at 2-8 °C for one month or at -20 °C to -70 °C in a manual defrost freezer for three months without detectable loss of activity.</li><li>● Avoid repeated freeze-thaw cycles.</li></ul> |
| <b>Usage</b>               | <ul style="list-style-type: none"><li>● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE</li></ul>   |

### ***Human Tumor Necrosis Factor- $\alpha$***

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