TNF-a Tumor Necrosis Factor-alpha Human Recombinant Protein, HEK

Introduction

Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages.

TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells.

Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.

Overview

<table>
<thead>
<tr>
<th>Product Name</th>
<th>TNF-a Tumor Necrosis Factor-alpha Human Recombinant Protein, HEK</th>
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</thead>
<tbody>
<tr>
<td>Description</td>
<td>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.</td>
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<tr>
<td>Source</td>
<td>HEK.</td>
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<tr>
<td>Application</td>
<td>Cell Culture</td>
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<tr>
<td>Physical Appearance</td>
<td>Sterile Filtered White lyophilized (freeze-dried) powder.</td>
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<tr>
<td>Formulation</td>
<td>The TNF-a protein was lyophilized from 1mg/ml in 1xPBS.</td>
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</tbody>
</table>

Storage

Store in -20°C for long term storage. After reconstitution, store in 4°C for short term usage within a few days. Avoid freeze-thaw cycles.

Purity

Greater than 95% as observed by SDS-PAGE.

Amino Acid Sequence

VRSSRTPSDKPVAVHVANPQAEGQLQWLNRRANALLANGLERDNQLVVPSEGLYLIYSQVLFKQGCPSTHVLLTHTISRIAIVSYQTKNLLSAIKSCP SVGQVYVGIAL.

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.

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