

# Analytical Data Sheet

Lot number

**0567209**

not for drug use

<b>Catalog Number</b>	<b>H-9630.0010</b>
<b>Product number</b>	<b>4030788.0010</b>
<b>Product</b>	<b>rec IL- 4 (human)</b>
<b>Molecular formula</b>	
<b>Relative molecular mass</b>	

Tests	Results
<b>Description</b>	Interleukin-4 (IL-4) is a potent lymphoid cell growth factor which stimulates the growth and survivability of certain B cells an T cells.
<b>Purity (HPLC)</b>	> 98%
<b>Purity (SDS-PAGE)</b>	> 98%
<b>Bioassay</b>	<p>The ED<sub>50</sub> was determined by the dose-dependent stimulation of human TF-1 cells is = 0.5 ng/ml, corresponding to a specific activity of = 2 x 10<sup>6</sup> units/mg.</p> <p>For most in vitro applications, IL-4 exerts its biological activity in the concentration range of 0.1 to 10.0 ng/ml.</p>
<b>General comment</b>	<p>Endotoxin level is less than 0.1 ng per µg (1EU/µg) of IL-4.</p> <p>Molecular weight: 14.9 kDa protein containing 129 amino acid residues</p> <p>Source: E. coli</p>
<b>Storage and Reconstitution</b>	<p>The lyophilized IL-4 is soluble in water and most aqueous buffers. The lyophilized protein should be reconstituted in water to a concentration of 100 µg/ml. This solution can be diluted into water or other buffered solutions or stored at - 20 °C for furure use. The lyophilized IL-4, though stable at room temperature, is best stored desiccated below 0°C. Reconstituted IL-4 should be stored in working aliquots at - 20 °C.</p>
<b>(Formulation)</b>	Sterile filtered then the protein was lyophilized with no additives.
Latest update: October 25, 2008	<p align="right"><b>Analytical Data Sheet</b> Lot number <b>0567209</b></p>