

# Growth Factor Data Sheet

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!

Interleukin-1 alpha (IL1A) is a nonsecreted pro-inflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells and endothelial cells. It possesses metabolic, physiological and hematopoietic activities, and plays one of the central roles in the regulation of immune responses. Both IL1A and IL1B bind to the same receptor and have similar but not identical biological properties. Recombinant rat IL1A contains 150 amino acids, which is a single nonglycosylated polypeptide.

<b>Catalog Number</b>	<b>1510-01A</b>
<b>Product Name</b>	<b>IL1A (IL-1 alpha), Rat</b> Recombinant Rat Interleukin-1 $\alpha$ IL1A Interleukin 1 $\alpha$ IL1 $\alpha$
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~17.8 kDa (156 amino acids)
<b>Sequence</b>	SAPHSFQNNL RYKLIRIVKQ EFIMNDSLNLQ NIYVDMDRIH LKAASLNDLQ LEVKFDMYAY SSGGDDSKYP VTLKVSNTQL FVSAQGDKP VLLKEIPETP KLITGSETDL IFFWEKINSK NYFTSAAFPE LLIATKEQSQ VHLARGLPSM IDFQIS
<b>Accession Number</b>	<a href="#">P16598</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine D10S cells is less than 0.005 ng/ml, corresponding to a specific activity of >2.0 $\times 10^8$ IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.