

Growth Factor Data Sheet

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

Interleukin 1 alpha (IL1 α) is a non-secreted proinflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. Both IL1 α and IL1 β binds to the same receptor and has similar if not identical biological properties. Recombinant rhesus macaque IL1 alpha contains 150 amino acids which is a single nonglycosylated polypeptide. Among various species, the amino acid sequence of mature IL1 α is conserved 60% to 70% and human IL1 has been found to be biologically active on murine cell lines.

Catalog Number	1210-01A
Product Name	IL1A (IL-1 alpha), Rhesus macaque Recombinant Rhesus Monkey Interleukin 1 alpha Hematopoietin-1 Preinterleukin 1 alpha, IL1F1
Source	<i>Escherichia coli</i>
MW	~18.1 kDa (159 amino acids)
Sequence	SAPFSFLSNM TYHFIRIKH EFILNDTLNQ TIIRANDQHL TAAAIHNLDE AVKFDMGAYT SSKDDTKVPV ILRISKTKLY VSAQDEDQPV LLKEMPEINK TITGSETNFL FFWETHGTKN YFISVAHPNL FIATKHDNWW CLAKGLPSIT DFQILENQA
Accession Number	P48089
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 10 pg/ml, corresponding to a specific activity of >1.0 × 10 ⁸ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	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.
Reconstitution	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.