

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 in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL1A and IL1B bind to the same receptor and have similar biological properties. These cytokines have a broad range of activities including stimulation of thymocyte proliferation by inducing IL2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL1B is a secreted cytokine, IL1A is predominantly a cell associated cytokine.

Catalog Number	1310-01A
Product Name	IL1A (IL-1 alpha), Murine Recombinant Murine Interleukin-1 α IL1A Interleukin 1 α
Source	<i>Escherichia coli</i>
MW	~17.9 kDa (156 amino acids)
Sequence	SAPYTYQSDL RYKLMKLRQ KFVMNDSLNLQ TIYQDVDKHY LSTTWLNDLQ QEVKFDMYAY SSGGDDSKYP VTLKISDSQL FVSAQGEDQP VLLKELPETP KLITGSETDL IFFWKSINSK NYFTSAAYPE LFIATKEQSR VHLARGLPSM TDFQIS
Accession Number	Q3U0Y6
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 2.0 ng/ml, corresponding to a specific activity of >5.0 $\times 10^8$ 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.