
Product Data Sheet

Product Name: IL 1 Alpha Rhesus Macaque
 Cat. No.: GP20448
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Hematopoietin-1; Lymphocyte-activating factor (LAF); Endogenous Pyrogen (EP); Leukocyte Endogenous Mediator (LEM); Mononuclear Cell Factor (MCF); IL-1 alpha; IL1; IL-1A; IL1F1.		
Amino Acid Sequence	SAPFSFLSNM TYHFIRIIKH EFILNDTLNQ TIIRANDQHL TAAAIHNLDE AVKFDMGAYT SSKDDTKVPV ILRISKTKQLY VSAQDEDQPV LLKEMPEINK TITGSETNFL FFWETHGTKN YFISVAHPNL FIATKHDNWV CLAKGLPSIT DFQILENQA		
Solubility	It is recommended to reconstitute the lyophilized IL 1 alpha Recombinant in sterile distilled H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The IL 1 alpha was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

Introduction

IL-1 alpha is produced by activated macrophages, stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. IL1A proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.

Biological Activity

The ED₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 10 pg/ml, corresponding to a specific activity of > 1.0×10⁸ IU/mg.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Lyophilized IL 1 alpha although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL 1 alpha should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Recombinant IL 1 alpha Rhesus Macaque produced in E.coli cells is a non-glycosylated, homodimeric protein containing 159 amino acid chain and having a molecular mass of 18.1kDa. The IL 1 alpha is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA