
Product Data Sheet

Product Name: IL 1 beta Equine

Cat. No.: GP20457

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Catabolin; Lymphocyte-activating factor (LAF); Endogenous Pyrogen (EP); Leukocyte Endogenous Mediator (LEM); Mononuclear Cell Factor (MCF); IL1F2; IL-1 beta.		
Amino Acid Sequence	AAMHSVNCRL RDIYHKSLVL SGACELQAVH LNGENTNQV VFCMSFVQGE EETDKIPVAL GLKEKNLYLS CGMKD GKPTL QLETVD PNTY PKRKMEKRFV FNKMEIKGNV EFESAMY PNW YISTSQA EKS PVFLGNTRGG RDITDFIMEI TSA		
Solubility	It is recommended to reconstitute the lyophilized IL 1 beta 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 beta was lyophilized from a 0.2µm filtered concentrated solution in PBS pH 7.4, containing 0.1 % Tween-80.		

Introduction

Interleukin-1b is produced by activated macrophages, IL-1B stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. IL1B 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 20 pg/ml, corresponding to a specific activity of $> 5.0 \times 10^7$ IU/mg.

Stability

Lyophilized IL 1 beta although stable at room temperature for 3 weeks, should be stored

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

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desiccated below -18°C . Upon reconstitution IL 1 beta 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 beta Equine produced in E.coli cells is a non-glycosylated, homodimeric protein containing 153 amino acid chain and having a molecular mass of 17.3kDa. The IL 1 beta is purified by proprietary chromatographic techniques.

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