9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL 1 beta Equine

Interleukin-1 beta Equine Recombinant
CYK0228

Product Overview

Name	IL 1 beta Equine
Description	
Interleukin-1 beta Equine Recombinant	
Accession (Primary)	Q28386
Synonyms	
Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The IL 1 beta was lyophilized from a 0.2 μm filtered concentrated solution in PBS pH 7.4, containing 0.1 % Tween-80.	
Stability	
Lyophilized IL 1 beta although stable at room temperature for 3 weeks, should be stored 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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
AAMHSVNCRL RDIYHKSLVL SGACELQAVH LNGENTNQQV VFCMSFVQGE EETDKIPVAL GLKEKNLYLS CGMKDGKPTL QLETVDPNTY PKRKMEKRFV FNKMEIKGNV EFESAMYPNW YISTSQAEKS PVFLGNTRGG RDITDFIMEI TSA	

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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 × 10 7 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized IL 1 beta in sterile distilled H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 1 beta Equine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q28386)