

Interleukin-1 beta Active Protein | IL 1 beta active protein

Recombinant Human Interleukin-1 beta

CATALOG # AAA38108	HOST E Coli
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PRODUCT SYNONYMS

Interleukin-1 beta; Recombinant Human Interleukin-1 beta; IL 1 beta Human; Interleukin-1 beta Human Recombinant; Catabolin; Lymphocyte-activating factor (LAF); Endogenous Pyrogen (EP); Leukocyte Endogenous Mediator (LEM); Mononuclear Cell Factor (MCF); IL1F2; IL-1 beta; IL 1 beta active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 50mM Phosphate buffer pH=7.1 and 150mM NaCl. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro -Val-Arg-Ser
Sequence Length	269
Solubility	It is recommended to reconstitute the lyophilized Interleukin-1b in sterile 18M Omega -cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.631 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of IL-1 beta Recombinant as a Reference Standard.
Biological Activity	The specific activity as determined in the test of augmentation of lymphocyte proliferation assay using mouse thymus was found to be 200,000,000 IU/mg.
Preparation and Storage	Lyophilized Interleukin-1b although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IL1b should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IL 1 beta active protein	Description: Interleukin-1 beta Human Recombinant produced in E Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17000 Dalton. The IL-1b is purified by proprietary chromatographic techniques. 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.
Product Categories/Family for IL 1 beta active protein	Cytokines and Growth Factors; Cytokines; Interleukin

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835145
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NCBI GeneID	3553
NCBI Accession #	NP_000567.1
NCBI GenBank Nucleotide #	NM_000576.2
UniProt Accession #	P01584 ; Q53X59 ; Q53XX2 ; Q7M4S7 ; Q7RU01 ; Q96HE5 ; Q9UCT6
Molecular Weight	30,748 Da
NCBI Official Full Name	interleukin-1 beta proprotein
NCBI Official Synonym Full Names	interleukin 1, beta
NCBI Official Symbol	IL1B
NCBI Official Synonym Symbols	IL-1; IL1F2; IL1-BETA
NCBI Protein Information	interleukin-1 beta; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta
UniProt Protein Name	Interleukin-1 beta
UniProt Gene Name	IL1B
UniProt Synonym Gene Names	IL1F2; IL-1 beta
UniProt Entry Name	IL1B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-il-1-beta-active-protein/interleukin-1-beta/38108>