

Active Recombinant Monkey Interleukin 1 Beta

Cat. No. IL1B-394M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Interleukin-1 beta Monkey Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 153 amino acids and having a molecular mass of 17.3 kDa. The IL1B is purified by proprietary chromatographic techniques.
Species	Monkey
Source	Monkey
Description	IL1B is produced by activated macrophages, IL1B 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.
Form	The protein was lyophilized with 1x PBS pH-7.4
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Bio-activity	The ED50 as determined by the dose-dependant stimulation of D10.G4.1 mouse helper T cells is typically 3-10pg/mL.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized IL1B in sterile 18Mμ-cm H2O not

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less than 100g/ml, which can then be further diluted to other aqueous solutions.

Amino acid sequence

APVRS LHCTL RDAQLKSLVM SGPYELKALH LQGQDLEQQV VFSMSFVQGE
ESNDKIPVAL GLKAKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV
FNKIEINNKL EFESAQFPNW YISTSQAENM PVFLGGTRGG QDITDFTMQF VSS.

Storage

Lyophilized IL1B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL1B 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.

Pathways

African trypanosomiasis; Alzheimer"s disease; Amoebiasis; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Graft-versus-host disease; Influenza A; Leishmaniasis; MAPK signaling pathway; Malaria; Measles; NOD-like receptor signaling pathway; Osteoclast differentiation; Pertussis

GENE INFORMATION

Gene Name

IL1B interleukin 1, beta [*Macaca mulatta*]

Official Symbol

IL1B

Synonyms

IL1B; interleukin 1, beta; interleukin-1 beta; IL-1 beta; Catabolin; IL-1; IL-1B; IL1-BETA; IL1F2; pro-interleukin-1-beta

Gene ID

704701

mRNA Refseq

NM_001042756

Protein Refseq

NP_001036221

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UniProt ID P48090

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