# Active Recombinant Monkey Interleukin 1 Beta

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

## SPECIFICATION

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| **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 100μg/ml, which can then be further diluted to other aqueous solutions. |
| **Amino acid sequence** | APVRSLHCTL 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

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| **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 |
| **PDB rendering based on 31bi.** | |

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