

IL 1 beta Mouse, His

Description: Interleukin-1 beta Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 189 amino acids and having a molecular mass of 21 kDa. The IL-1b is fused to His-Tag and purified by proprietary chromatographic techniques.

Catalog #: CYP5-585

For research use only.

Synonyms: Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL1F2, IL-1 beta, Interleukin-1 beta.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMVPI
RQLHYRLRDE QQKSLVLSDP YELKALHLNG QNINQQVIFS MSFVQGEPSN DKIPVALGLK
GKNLYLSCVM KDGTPTLQLE SVDPKQYPPK KMEKRFVFNK IEVSKSVEFE SAEFPNWWYIS
TSQAEHKPVF LGNNSGQDII DFTMESVSS.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The IL-1B protein contains 20mM Tris pH-8 and 10% glycerol.

Stability:

IL-1b although stable at 4°C for 2 weeks, should be stored desiccated 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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. IL-1b is an inflammatory cytokine which modulates angiogenesis by interacting directly with vascular endothelial cells & increasing the production of proangiogenic factors through paracrine control. IL-1 beta stimulates endothelial cell migration and proliferation, adhesion-molecule expression, inflammatory mediator production, and leukocyte recruitment. IL1B is essential for tumor growth, metastasis, and angiogenesis in quite a few animal models.

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