

CHASELECTION

Recombinant Human Interleukin- 1 β / IL-1 β

Catalog Number: CY040F0XXX

Synonym: Catabolin, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF)

Source: *E.coli*

Structure:

Gene ID: NP_000567

AA Sequence:

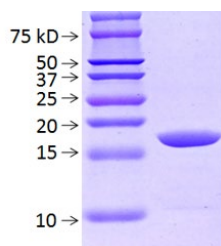
APVRSNLNCTL RDSQQKSLVM SGPYELKALH
LQGQDMEQQV VFMSFVQGE ESNDKIPVAL
GLKEKNLYLS CVLKDDKPTL QLESVDPKNY
PKKKMEKRFV FNKIEINNKL EFESAQFPNW
YISTSQAENM PVFLGGTKGG QDITDFTMQF
VSS

Molecular Weight: 17.38 kDa

Purity:

≥90 % as determined by SDS-PAGE & HPLC

SDS-PAGE



SDS-PAGE showed a protein molecular weight of approximately 17.38

Endotoxin: <0.5 EU/ μ g

Formulation:

PBS pH7.2

Reconstitution:

1. Before opening, please briefly centrifuge the contents to the bottom;
2. It is recommended to initially dissolve in sterile deionized water to an appropriate concentration (recommended concentration is 0.2-1 mg/ml);
3. If further dilution is required, it is recommended to dilute the solution with a solution containing carrier proteins (eg., 0.1% BSA, 10% FBS, and 5% HSA).

Shipping & Storage:

The product is shipped with blue ice.

If long-term storage is required, this product should be stored at $\leq -20^{\circ}\text{C}$, please avoid repeated freeze-thaw cycles.

1. Dry powder can be stored at ≤ -20 for at least 24 months;
2. After reconstitution, it can be stored for 1 month under sterile conditions at $2-8^{\circ}\text{C}$;
3. After reconstitution, it can be stored for 12 months under sterile conditions at $-20\sim -70^{\circ}\text{C}$.

Description:

IL-1 β is a proinflammatory cytokine produced in a variety of cells, including monocytes, tissue macrophages, keratinocytes, and other epithelial cells. Both IL-1 α and IL-1 β bind to the same receptor and have similar, if not identical, biological properties. These cytokines have a broad range of activities including the stimulation of thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity, and the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 β is a secreted cytokine, IL-1 α is predominantly a cell-associated cytokine. Recombinant Human IL-1 β is a 17.3 kDa protein containing 153 amino acid residues.

