

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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DATA SHEET

GFM68

Recombinant Mouse IL-1 β

Description

Interleukin-1 β (IL-1 β) is a pro-inflammatory cytokine that is produced by monocytes, macrophages, and dendritic cells (DCs). IL-1 β signals through the IL-1 receptor, type 1 (IL-1R1) to activate the myeloid differentiation primary response 88 (MYD88) signaling pathway, which contains the cytoplasmic Toll/IL-1 receptor (TIR) domain adapter. IL-1 β and the independently regulated IL-1 α protein have overlapping proinflammatory activities to induce adhesion molecule expression on epithelial cells, control fever induction, initiate rheumatoid arthritis, and promote septic shock.

Length154 aaMolecular Weight17.5 kDaSourceE. coliAccession NumberP01584

Purity ≥95% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names Interleukin-1 β, preinterleukin 1 β, IL1, IL 1, catabolin, LAF, EP, LEM, MCF

Biological Activity Mouse IL-1 β is fully biologically active when compared to standard. The activity is determined by the ability to

induce D10S cells proliferation and it is typically less than 15 pg/ml. This corresponds to an expected specific

activity of 6.7 x 107 units/mg.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

AA Sequence MAPVRSLNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG EESNDKIPVA

LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF VFNKIEINNK LEFESAQFPN

WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

Preparation and Storage

Reconstitution Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the

vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized

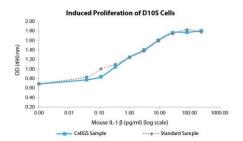
product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Stability and Storage 12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced proliferation of D10S cells assay for Mouse IL-1 β . Cell proliferation was measured to calculate the ED50, which is as expected less than 15 pg/ml.