

## Recombinant murine Interleukin-1 b (rm IL-1b )

Catalog No: #721012

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## Description

Product Name	Recombinant murine Interleukin-1 b (rm IL-1b )
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 96 % by SDS-PAGE and HPLC analyses.
Target Name	rm IL-1b
Other Names	Catabolin, Leukocyte Endogenous Mediator, LEM, Lymphocyte-activating factor , LAF, Mononuclear Cell Factor, MCF , Endogenous Pyrogen, EP
Accession No.	accession:P10749 GeneID:16176
Uniprot	P10749
GeneID	16176;
Calculated MW	Approximately 17.5 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	VPIRQLHYRL RDEQQKSLVL SDPYELKALH LNGQNINQQV IFMSFSVQGE PSNDKIPVAL GLKGKNLYLS CVMKDGTPTL QLESVDPKQY PKKKMEKRFV FNKIEVSKV EFESAEPNW YISTSQAEHK PVFLGNNSGQ DIIDFTMESV SS
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4, with 5 % trehalose, 0.02 % Tween-20.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

## Background

Interleukin-1beta (IL-1β) is a non-secreted proinflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. Both IL-1α and IL-1β binds to the same receptor and has similar but not identical biological properties. The mature mouse IL1β shares 90 % amino acid sequence identity with cotton rat and rat and 65 %-78 % identity with canine, human and rhesus IL1β.

## References

1. Bankers-Fulbright, J.L., K.R. Kalli, and D.J. McKean. 1996. *Life Sci*, 59: 61-83.
2. Dinarello, C.A. 1997. *Semin Oncol*, 24: S9-81-S9-93.
3. Martinon, F., and J. Tschopp. 2007. *Cell Death Differ*, 14: 10-22.
4. Gray, P.W., D. Glaister, E. Chen, et al. 1986. *J Immunol*, 137: 3644-8.

Note: This product is for in vitro research use only