

Active Recombinant Mouse Il1b

Cat. No. Il1b-8899M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1b was expressed in CHO Cells.
Species	Mouse
Source	CHO
Description	Interleukin-1 (IL-1) is a family of cytokines that play a central role in the regulation of immune and inflammatory responses to infections or sterile insults. IL-1α and IL-1β are the first two members discovered in this family, which are the products of distinct genes recognizing the same cell surface receptors. IL-1α and IL-1β are structurally related polypeptides that show approximately 25% homology at the amino acid level. Both proteins are produced by a wide variety of cells in response to stimuli such as those produced by inflammatory agents, infections, or microbial endotoxins. The proteins are synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17.5 kDa. The specific protease responsible for the processing of IL-1β is interleukin 1β-converting enzyme (ICE)/caspase-1. Mature human and mouse IL-1β share approximately 75% amino acid sequence identity where human IL-1β has been found to be active on murine cell lines.
Form	Lyophilized after extensive dialysis against PBS.
Bio-activity	ED50 < 10 pg/ml, measured in a cell proliferation assay using d10s cells, corresponding to a specific activity

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	of="">1×108 units/mg.
Molecular Mass	17.4 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	Val118-Ser269.
Endotoxin	<0.2 eu/μg,="" determined="" by="" la="">
Purity	>95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmlL-1beta should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/ml.

GENE INFORMATION

Gene Name	Il1b interleukin 1 beta [Mus musculus]
Official Symbol	Il1b
Synonyms	IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta; Il-1b; IL-1beta;
Gene ID	16176
mRNA Refseq	NM_008361
Protein Refseq	NP_032387
UniProt ID	P10749

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Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Apoptosis, organism-specific biosystem;
Function	cytokine activity; cytokine activity; growth factor activity; interleukin-1 receptor binding; protein domain specific binding;

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