

Active Recombinant Mouse Il1b Protein (Val118-Ser269), C-His tagged, Animal-free, Carrier-free

Cat. No. Il1b-55M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1b Protein (Val118-Ser269) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Val118-Ser269
Description	Interleukin-1 beta (IL-1 β) is a major cytokine expressed in macrophage, NK cells, monocytes, and neutrophils. It also plays fundamental role in inflammatory response, including monocyte activation, which is essential for the host defense and pathogen resistance. Pro-IL-1 β is cleaved by cytosolic caspase 1 to form mature IL-1 β .
Form	Lyophilized
Bio-activity	Measure by its ability to induce D10.G4.1 cells proliferation. The ED50 for this effect is < 8 pg/mL. The specific activity of recombinant mouse IL-1 beta is approximately >1.2 $\times 10^8$ IU/mg.
Molecular Mass	The protein has a calculated MW of 18.3 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/ μ g of the protein by the LAL method.

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Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

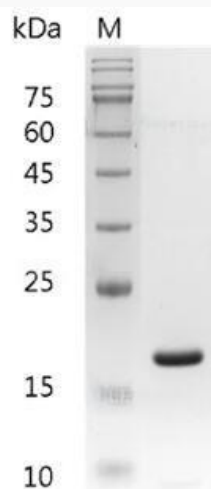
Gene Name	Il1b interleukin 1 beta [Mus musculus (house mouse)]
Official Symbol	Il1b
Synonyms	IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta; Il-1b; IL-1beta;
Gene ID	16176
mRNA Refseq	NM_008361
Protein Refseq	NP_032387
UniProt ID	P10749

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**SDS-PAGE analysis
of recombinant
mouse IL-1 beta**



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