

Recombinant Rat IL1B Protein

Cat. No. IL1B-152R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IL1B Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Interleukin 1 beta (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.
Bio-activity	No biological activity data is available at this time.
Molecular Mass	Monomer, 17.4 kDa (153 aa)
AA Sequence	MVPIRQLHCRLRDEQQKCLVLSDPCELKALHLNGQNISQQVVFMSFVQGETSNDKI PVALGLKGLNLYLSCVMKDGTPTLQLESVDPKQYPKKKMEKRFVFNKIEVKTKEFE SAQFPNWIYSTSQAEHRPVFLGNSNGRDIVDFTMEPVSS
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL

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Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	Il1b interleukin 1 beta [Rattus norvegicus (Norway rat)]
Official Symbol	IL1B
Synonyms	IL1B; interleukin 1 beta; interleukin-1 beta; IL-1 beta;
Gene ID	24494
mRNA Refseq	NM_031512

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Protein Refseq	NP_113700
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UniProt ID	Q63264
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