

Recombinant Human IL-1 beta

Cat. No. IL1b-82H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IL-1 beta was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Human
Source	Yeast
Description	The IL-1 family of cytokines encompasses eleven proteins that each share a similar β-barrel structure and bind to Ig-like receptors. Several of the well characterized members of the IL-1-like cytokines play key roles in the development and regulation of inflammation. IL-1α (IL-1F1), IL-1β (IL-1F2), and IL-18 (IL-1F4) are well-known inflammatory cytokines active in the initiation of the inflammatory reaction and in driving Th1 and Th17 inflammatory responses. In contrast, IL-1 receptor antagonist (IL-1ra; IL-1F3) and IL-36 receptor antagonist (IL-36ra; IL-1F5) reduce inflammation by blocking the binding of the agonist receptor ligands. IL-33 (IL-1F11) is thought to function as an "alarmin" released following cell necrosis to alerting the immune system to tissue damage or stress. The biological properties of IL-37 (IL-1F7) are mainly those of down-regulating inflammation.
Form	Lyophilized
Molecular Mass	17.4 kDa
AA Sequence	APVRSLNCTL RDSQQKSLVM SGPYELKALH LQGQDMEQQV VFSMSFVQGE ESNDKIPVAL GLKEKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV

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FNKIEINNKL EFESAQFPNW YISTSQAENM PVFLGGTKGG QDITDFTMQF VSS
(153)

Applications

The Human IL-1 beta protein can be used in cell culture, as an IL-1 beta ELISA Standard, and as a Western Blot Control.

Storage

-20 C

GENE INFORMATION

Gene Name

IL1B interleukin 1, beta [Homo sapiens]

Official Symbol

IL1b

Synonyms

IL1B; interleukin 1, beta; interleukin-1 beta; IL 1B; IL1 BETA; IL1F2; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta; IL-1; IL1-BETA;

Gene ID

3553

mRNA Refseq

NM_000576

Protein Refseq

NP_000567

MIM

147720

UniProt ID

P01584

Chromosome Location

2q14

Pathway

African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers

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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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