

## Active Recombinant Human IL1B, HIgG1 Fc-tagged, mutant

Cat. No. II1B-464H Lot. No. (See product label)

### SPECIFICATION

**Product Overview**

The extracellular domain of human IL-1b (NP\_000567.1)(Ala117-Ser269) is fused to the N-terminus of the Fc region of mutant human IgG1 was expressed in CHO cell.

**Species**

Human

**Source**

CHO

**Protein Length**

117-269 a.a.

**Description**

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.

**Form**

Lyophilized from 0.2µm-filtered solution in PBS.

**Bio-activity**

cytokine activity; interleukin-1 receptor binding; protein binding

**Molecular Mass**

43KDa (monomer)

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<b>AA Sequence</b>	Ala117-Ser269
<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	IL1B interleukin 1, beta [ Homo sapiens ]
<b>Official Symbol</b>	IL1B
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">3553</a>
<b>mRNA Refseq</b>	<a href="#">NM_000576</a>
<b>Protein Refseq</b>	<a href="#">NP_000567</a>
<b>MIM</b>	<a href="#">147720</a>
<b>UniProt ID</b>	<a href="#">P01584</a>

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<b>Chromosome Location</b>	2q14
<b>Pathway</b>	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;
<b>Function</b>	cytokine activity; cytokine activity; growth factor activity; interleukin-1 receptor binding; protein domain specific binding;

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