

Active Recombinant Human IL1B, HIgG1 Fc-tagged, mutant

Cat. No. IL1B-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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AA Sequence	Ala117-Ser269
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	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.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

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

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Chromosome Location	2q14
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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