

Active Recombinant Human IL1B

Cat. No. IL1B-339H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IL1B (P01584, 117 a.a.-269 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	Interleukin-1 beta (IL-1 μ) also known as catabolin, is a cytokine protein that in humans is encoded by the IL1B gene. IL-1 μ precursor is cleaved by caspase 1 (interleukin 1 beta convertase). Cytosolic thiol protease cleaves the product to form mature IL-1 μ . IL-1 μ 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.
Sequence	APVR SLNCTLRDSQ QKSLVMSGPY ELKALHLQGQ DMEQQVVFSM SFVQGEESND KIPVALGLKE KNLYLSCVLK DDKPTLQLES VDPKNYPKKK MEKRFVFNKI EINNKFES AQFPNWIYST SQAENMPVFL GGTKGGQDIT DFTMQFVSS
Theoretical MW (kDa)	17
Form	Lyophilized

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Preparation Method	Escherichia coli expression system
Purity	> 97% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED50 as determined by the dose-dependent proliferation of murine D10S cells, was found to be μ 2.0 pg/ml, corresponding to a specific activity of μ 2 x 10 ⁹ units/mg.
Application	SDS-PAGE
Storage Buffer	Lyophilized from PBS, pH 7.0
Storage	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P01584
Pathways	Alzheimer"s disease; Apoptosis; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; MAPK signaling pathway; Toll-like receptor signaling pathway; Type I diabetes mellitus.

GENE INFORMATION

Gene Name	IL1B interleukin 1, beta [Homo sapiens]
Official Symbol	IL1B
Synonyms	IL-1; IL1F2; IL1-BETA; Catabolin; IL-1B; pro-interleukin-1-beta; Interleukin-1 beta precursor; interleukin 1, beta; preinterleukin 1 beta; IL1B_HUMAN.

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Gene ID	3553
mRNA Refseq	NM_000576
Protein Refseq	NP_000567
MIM	147720
Chromosome Location	2q14
Function	interleukin-1 receptor binding; protein binding; signal transducer activity
PDBrendering based on 31bi.	