Active Recombinant Human IL1B

Cat. No. IL1B-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human IL-1β MW=17 kDa. The recombinant protein was purified by Ni-NTA and followed gel filtration chromatography
Species	Human
Source	E.coli
Description	IL1 is a name that designates two pleiotropic cytokines, IL-1α (IL1-F1) and IL-1β (IL-1F2), which are the products of distinct genes. IL-1α and IL-1β are structurally related polypeptides that share approximately 21% amino acid (aa) identity in human. Both proteins are produced by a wide variety of cells in response to inflammatory agents, infections, or microbial endotoxins. While IL-1α and IL-1β are regulated independently, they bind to the same receptor and exert identical biological effects.
Form	Lyophilized from a 0.22μm filtered solution at a concentration of 1mg/ml in 100mM Tris-HCl, pH8.0, 100mM NaCl, 1mM DTT.
Bio-activity	The recombinant protein was active in ELISA assay with an EC50 of about 5nM
Molecular Mass	The measured MW in LC-MS was 17422 Dalton, in agreement with its theoretic molecular weight
AA Sequence	GAPVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVFSMSFVQGEESN DKIPVALGLKEKNLYLSCVLK DDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINNKLE

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	FESAQFPNWYISTSQAENMPVFLGGTKGGQDITDFTM QFVSS
Purity	Purity>95% by SDS PAGE and Coomassie blue stain
Storage	Upon reconstitution, the preparation is stable for up to 1 month at 2-8°C. For long term storage, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 1.0 mg/ml.
Full Length	Full L.

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

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UniProt ID	P01584
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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