

## Recombinant Human IL1B Protein

Cat. No. IL1B-40H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** This recombinant protein contains full length of Human interleukin 1 $\beta$  without tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**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. Similarly, IL-1B has been implicated in human osteoarthritis pathogenesis. Patients with severe Coronavirus Disease 2019 (COVID-19) present elevated levels of pro-inflammatory cytokines such as IL-1B in bronchial alveolar lavage fluid samples. The lung damage induced by the Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL-1B. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.

**Form** Affinity purified, liquid

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<b>Molecular Mass</b>	19.72 kDa
<b>Purity</b>	>95% pure by SDS-PAGE
<b>Applications</b>	Suitable for use in ELISA, WB and other immune tests
<b>Storage</b>	Upon receipt, aliquot and store at ≤ -20 centigrade. Avoid multiple freeze/thaw cycles
<b>Storage Buffer</b>	PBS, pH 7.3
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	IL1B interleukin 1 beta [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL1B
<b>Synonyms</b>	IL1B; interleukin 1 beta; IL-1; IL1F2; IL1beta; IL1-BETA; interleukin-1 beta; IL-1 beta; catabolin; interleukin 1beta; preinterleukin 1 beta; pro-interleukin-1-beta
<b>Gene ID</b>	3553
<b>mRNA Refseq</b>	NM_000576
<b>Protein Refseq</b>	NP_000567
<b>MIM</b>	147720
<b>UniProt ID</b>	P01584

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