

Recombinant Full Length Human IL1B Protein, C-Flag-tagged

Cat. No. IL1B-313HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human IL1B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	30.6 kDa
AA Sequence	MAEVP ELASEMMAYYS GNEDDLFFEADGPKQMKCSFQDL DLCPLDGGIQLRISDHH YSKGFRQAASVVVA MDKLRKMLVPCPQTFQENDLSTFFPFIFEEPIFFDTWDNEA YVHDAPVRS LNCTLRDSQQKSLVMSGPY ELKALHLQGQDMEQQVVFMSFVQGE ESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKK MEKRFVFNKIEINN KLEFESAQFPN WYIST SQAENMPVFLGGTKGGQDITDFTMQFV SSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Protein Pathways	Alzheimer's disease, Apoptosis, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Graft-versus-host disease, Hematopoietic cell lineage, MAPK signaling pathway, NOD-like receptor signaling pathway, Prion diseases, Toll-like receptor signaling pathway, Type I diabetes mellitus
Full Length	Full L.

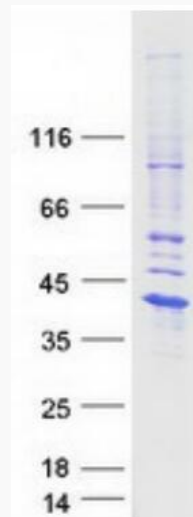
GENE INFORMATION

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Gene Name	IL1B interleukin 1 beta [Homo sapiens (human)]
Official Symbol	IL1B
Synonyms	IL-1; IL1F2; IL1beta; IL1-BETA
Gene ID	3553
mRNA Refseq	NM_000576.3
Protein Refseq	NP_000567.1
MIM	147720
UniProt ID	P01584



Coomassie blue staining of purified IL1B protein.

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