

Product datasheet for AR09047PU-N

OriGene Technologies, Inc.

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Interleukin-1 beta / IL-1B (117-269) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: Interleukin-1 beta / IL-1B (117-269) human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MAPVRSLNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG EESNDKIPVA

LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF VFNKIEINNK LEFESAQFPN

WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

Concentration: lot specific

Purity: >95% >/= 95% by SDS PAGE

Buffer: Presentation State: Purified

State: E. coli

Buffer System: PBS, pH 7.4

Preparation: E. coli

Protein Description: Recombinant human IL-1β was expressed in E.coli and purified by using conventional

chromatography techniques.

Storage: Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 000567

 Locus ID:
 3553

 UniProt ID:
 P01584

 Cytogenetics:
 2q14.1

Synonyms: IL-1; IL1-BETA; IL1beta; IL1F2





Summary:

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. [provided by RefSeq, Jul 2020]

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

Product images:

