

Product datasheet for TP721175

OriGene Technologies, Inc.

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IL1 beta (IL1B) (NM_000576) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human interleukin 1, beta (IL1B)

Species: Human
Expression Host: E. coli

Expression cDNA Clone

Met1-Leu586

lot specific

or AA Sequence:

Concentration:

Tag:Tag FreePredicted MW:17.4 kDa

Purity: >95% as determined by SDS-PAGE and Coomassie blue staining

Buffer: Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl

Endotoxin: Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)

Storage: Store at -80°C.

Stability: Stable for at least 6 months from date of receipt under proper storage and handling

conditions.

RefSeg: NP 000567

 Locus ID:
 3553

 UniProt ID:
 P01584

 RefSeq Size:
 1498

 Cytogenetics:
 2q14.1

 RefSeq ORF:
 807

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

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