

Product datasheet for TP721027L

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 E. coli **Expression Host:** Ala117-Ser269 **Expression cDNA Clone** or AA Sequence: Tag: Tag Free Predicted MW: 17.5 kDa **Concentration:** lot specific **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 Measured by its ability to induce NF-kB signaling in 293-IL1 Res cells. The ED50 for this effect **Bioactivity:** is 20-100 pg/ml. **Endotoxin:** Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g) **Reconstitution Method:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Storage: Store at -80°C. Stability: Stable for at least 3 months from date of receipt under proper storage and handling conditions. **RefSeq:** NP 000567 Locus ID: 3553 **UniProt ID:** P01584 Cytogenetics: 2q14.1 Synonyms: IL-1; IL1-BETA; IL1beta; IL1F2



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| | IL1 beta (IL1B) (NM_000576) Human Recombinant Protein – TP721027L |
|------------------|---|
| 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 Pathway | 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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