

Product datasheet for **AR05233PU-S**

Interleukin-1 beta / IL-1B Chicken Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Interleukin-1 beta / IL-1B chicken recombinant protein, 50 µg
Species:	Chicken
Concentration:	lot specific
Purity:	>85% by Ni chelate Chromatography
Buffer:	State: Liquid purified protein Buffer System: Phosphate buffered saline
Preparation:	Liquid purified protein
Applications:	In vitro Assay. Functional Assays.
Protein Description:	His-tagged recombinant chicken interleukin-1 beta expressed in <i>E.coli</i> . This antigen induces corticosterone secretion in vivo(1) and is the immunogen used to produce chicken IL-1beta antibody product code SP2127A.
Storage:	Store the protein at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: 3 month from despatch.
RefSeq:	NP_000567
Locus ID:	3553
UniProt ID:	P01584
Cytogenetics:	2q14.1
Synonyms:	IL-1 beta, IL1B, IL1 beta, IL1F2, Catabolin



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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:

In vitro Assay.
Functional Assays.

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