

ARG70202 Pig IL1 beta recombinant protein (Active) (His-tagged, C-ter)

Package: 100 μg, 20 μg Store at: -20°C

Summary

| Product Description | E. coli expressed, His-tagged (C-ter) Active Pig IL1 beta recombinant protein | |
|---------------------|---|--|
| Tested Application | SDS-PAGE | |
| Target Name | IL1 beta | |
| Species | Pig | |
| A.A. Sequence | Ala115 - Pro267 | |
| Expression System | E. coli | |
| Activity | Active | |
| Activity Note | Determined by its ability to induce D10.G4.1 cells proliferation. The ED50 for this effect is < 3 ng/mL. | |
| Alternate Names | Interleukin-1 beta; IL1-BETA; IL-1; IL-1 beta; Catabolin; IL1F2 | |

Properties

| Form | Powder | |
|---------------------|---|--|
| Purification Note | Endotoxin level is less than 0.1 EU/ μg of the protein, as determined by the LAL test. | |
| Purity | > 98% (by SDS-PAGE) | |
| Buffer | PBS (pH 7.4) | |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 200 μ g/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely. | |
| Storage instruction | For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. | |
| Note | For laboratory research only, not for drug, diagnostic or other use. | |

Bioinformation

| Gene Symbol | IL1B | |
|----------------|--|--|
| Gene Full Name | interleukin 1, beta | |
| Background | 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. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2008] | |
| Function | Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B- | |

| | inflammatory response, | iferation, and fibroblast growth factor activity. IL-1 proteins are involved in the being identified as endogenous pyrogens, and are reported to stimulate the and collagenase from synovial cells. [UniProt] |
|-----------------------|---|---|
| Highlight | Related products: IL1 beta antibodies; IL1 Related news: HMGB1 in inflammation Inflammatory Cytokines Exploring Antiviral Immu RIP1 activation and path | |
| РТМ | Activation of the IL1B precursor involves a CASP1-catalyzed proteolytic cleavage. Processing and secretion are temporarily associated. [UniProt] | |
| Cellular Localization | Cytoplasm, cytosol. Lysosome. Secreted, exosome. Secreted. Note=The precursor is cytosolic. [UniProt] | |
| Images | | |
| | - 50 | ARG70202 Pig IL1 beta recombinant protein (Active) (His-tagged, C- ter) SDS-PAGE image |
| | - 36 | SDS-PAGE analysis of ARG70202 Pig IL1 beta recombinant protein |
| | - 24 | (Active) (His-tagged, C-ter). |
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