Recombinant Pig IL-1 beta Protein

Catalog No.: RP00827

Sequence Information

Species
Pig

Gene ID
397122

Swiss Prot
P26889

Tags
No tag

Synonyms
IL1B,Interleukin-1 beta,IL-1 beta

Product Information

Source
E. coli

Purification
≥ 95% as determined by reducing SDS-PAGE.

Calculated MW
17.575 kDa

Observed MW
15-25 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Potent pro-inflammatory cytokine. Initially discovered as the major endogenous pyrogen, induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells. Plays a role in angiogenesis by inducing VEGF production synergistically with TNF and IL6. Involved in transduction of inflammation downstream of pyroptosis: its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore.

Basic Information

Description
Recombinant Pig IL-1 beta Protein is produced by *E. coli* cells expression system. The target protein is expressed with sequence (Ala115-Pro267) of Pig IL-1 beta(Accession #P26889) fused with no-tag.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

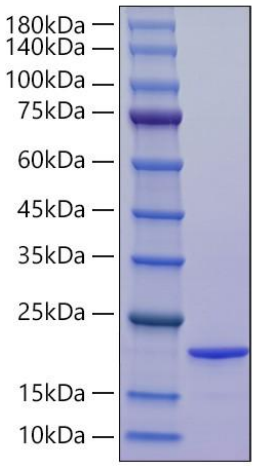
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Pig IL-1 beta Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.