

Recombinant Human IL-1 alpha Protein

Catalog No.: RP03505 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3552 P01583

Tags NO-Tag

Synonyms

IL1A; IL1F1 Interleukin-1 alpha; IL-1 alpha; Hematopoietin-1

Product Information

Source Purification

E. coli ≥ 95 % as

determined by S

determined by SDS-

PAGE.

Calculated MW Observed MW

18.05 kDa 15-20 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from $0.22\mu m$ 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.

Contact

<u>a</u>	400-999-6126
\bowtie	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease.

Basic Information

Description

Recombinant Human IL-1 alpha Protein is produced by E. coli Cells system. The target protein is expressed with sequence (Ser113-Ala271) of Human IL-1 alpha (Accession #NP 000566.3) fused with No tag.

Bio-Activity

Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED50 for this effect is 9.39-37.58 pg/mL, corresponding to a specific activity of $2.66 \times 10^7 \sim 1.06 \times 10^8$ units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

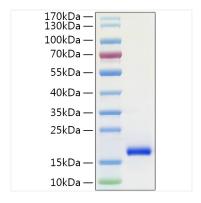
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

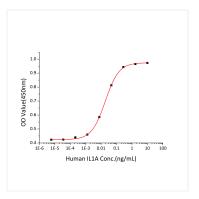
Operational Notes

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

Validation Data



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



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