

Recombinant Rat IL-1 alpha Protein

Catalog No.: RP01736 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	24493	P16598

Tags

C-6His

Synonyms

IL-1F1; IL-1 alpha; IL-1 α

Product Information

Source	Purification
HEK293 cells	$\geq 90\%$ as determined by SDS-PAGE.

Calculated MW	Observed MW
18.63 kDa	20-25 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

IL-1 alpha is a member of the interleukin 1 cytokine family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. IL-1 alpha is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. It is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. IL-1 alpha stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity.

Basic Information

Description

Recombinant Rat IL-1 alpha Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser115-Ser270) of rat IL-1 alpha/II1a (Accession #) fused with and a 6 \times His tag at the C-terminus.

Bio-Activity

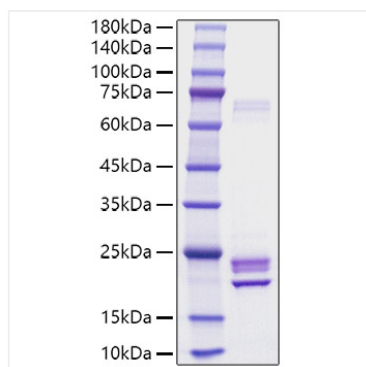
Storage

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°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



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