

RP02518

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Recombinant Mouse IL-1 alpha Protein

Catalog No.: RP02518

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<i>E. coli</i>	16175	P01582

Tags

NO-Tag

Synonyms

Il1a ; Interleukin-1 alpha; IL-1 alpha

Product Information

Source

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Purification

≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

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

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

Interleukin 1 alpha (IL-1α) also known as hematopoietin 1 is a cytokine of the interleukin 1 family that in humans is encoded by the IL1A gene. IL-1α is produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. It binds to the interleukin-1 receptor. It is on the pathway that activates tumor necrosis factor-alpha.

Basic Information

Description

Recombinant Mouse IL-1 alpha Protein is produced by E. coli cells expression system. The target protein is expressed with sequence (Ser115-Ser270) of Mouse IL-1 alpha (Accession # P01582) 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 3.075-12.3 pg/mL, corresponding to a specific activity of 8.13×10⁷~3.25×10⁸ units/mg.

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.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

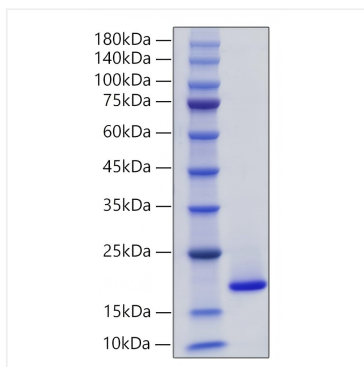
Contact



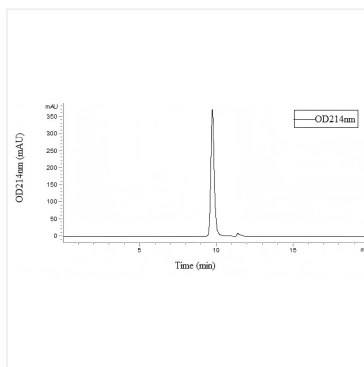
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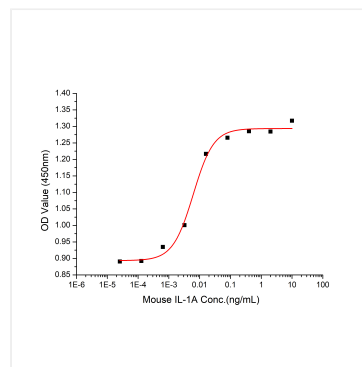
Validation Data



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



Recombinant Mouse IL-1 alpha Protein is greater than 95% as determined by SEC-HPLC.



Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED₅₀ for this effect is 3.075-12.3 pg/mL, corresponding to a specific activity of $8.13 \times 10^7 \sim 3.25 \times 10^8$ units/mg.