For Research Use Only

Recombinant Mouse IL-1 alpha protein (His Tag)(HPLC verified)



Catalog Number: Eg0263

Basic Information

Species: Mouse

Purity: >90 %, SDS-PAGE
>90 %, SDS-PAGE
, SD SEC-HPLC

Tag: His Tag

Technical Specifications

>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

HEK293-derived Mouse IL-1 alpha protein Met+Ser115-Ser270 (Accession# P01582) with a His tag at the Cterminus.

GeneID: 16175

Accession: P01582

Predicted Molecular Mass:

21.9 kDa

SDS-PAGE

24-32 kDa, reducing (R) conditions

Lyophilized from 0.22 $\,\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Until expiry date, -20° to -80° as lyophilized proteins. 3 months, -20° to -80° under sterile conditions after reconstitution.

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Interleukin-1 α (Il-1 α) is a protein that plays a crucial role in the regulation of a number of key cellular processes. Il-1 α is a cytokine and a potent mediator of body's response to inflammation, microbial invasion, tissue injury and immunological response. In addition, recent studies suggest that Il-1 α also has a role in wound healing, rheumatoid arthritis, Alzheimer's disease and tumor growth. Il-1 α functions as an alarmin during the process of sterile inflammation. It serves as a signal from dying cells to potentiate the inflammatory response, increasing the expression of other secreted factors like IL-6 and IL-8. Il-1 lpha was found to affect the cell cycle of osteosarcoma cell to reduce cell growth.

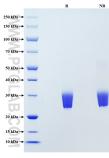
References

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 5. Palmer G. et al. (2005). Cytokine. 2:153-60.
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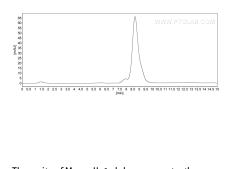
Synonyms

IL1a, IL1-alpha, Il 1a, IL1 alpha, IL-1,IL1

Selected Validation Data



Purity of Mouse IL-1 alpha was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse IL-1 alpha was greater than 90% as determined by SEC-HPLC.