

Recombinant mouse IL-1 alpha/IL1A protein

Catalog Number: ATGP3932

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

115-270aa

UniProt No.

P01582

NCBI Accession No.

NP_034684

Alternative Names

Interleukin-1 alpha precursor, Interleukin 1 alpha, IL-1F1, IL-1A, IL-1 alpha

PRODUCT SPECIFICATION

Molecular Weight

19.0kDa (165aa)

Concentration

0.5mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED50 range $\leq$ 0.15 ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

IL-1 alpha /IL-1F1, also known as interleukin-1 alpha, is a member of the interleukin-1 cytokine family. Cytokines

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are protein signaling compounds that are the main mediators of the immune response. This protein 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. Also, it stimulates thymocyte proliferation by inducing IL-2 release, B cell maturation and proliferation. Recombinant mouse IL-1 alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

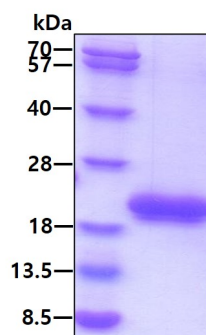
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PSMTDFQIS<H HHHHH>

General References

Dinarelli CA., et al. (1997) Semin Oncol. 24:S9-81-S9-93.
Bankers-Fulbright JL., et al. (1996) Life Sci. 59:61-83.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

Mouse IL-1 alpha /IL-1F1 stimulates cell proliferation of the D10.G4.1 mouse helper T cells. The ED50 range ≤ 0.15 ng/ml.

