

Recombinant human IL-1 alpha/IL1A protein

Catalog Number: ATGP3864

PRODUCT INFORMATION

Expression system

E.coli

Domain

113-271aa

UniProt No.

P01583

NCBI Accession No.

NP_000566

Alternative Names

Interleukin 1 alpha, preinterleukin 1 alpha, Hematopoietin-1, Pro-interleukin-1-alpha, IL1F1, IL-1A, IL1-ALPHA, IL1

PRODUCT SPECIFICATION

Molecular Weight

22.4 kDa (197aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) 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 cell. The ED50 for this effect is less or equal to 0.04ng/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

Recombinant human IL-1 alpha/IL1A protein

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Description

IL-1 consists of two distinct forms, IL-1 alpha and IL-1 beta which perform the same functions but are distinct proteins. IL-1alpha is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is also temporarily upregulated during bone formation and the menstrual cycle and can be induced in response to nervous system stimulation. Recombinant human IL-1alpha was expressed in E.coli and purified by using conventional chromatography techniques.

Amino acid Sequence

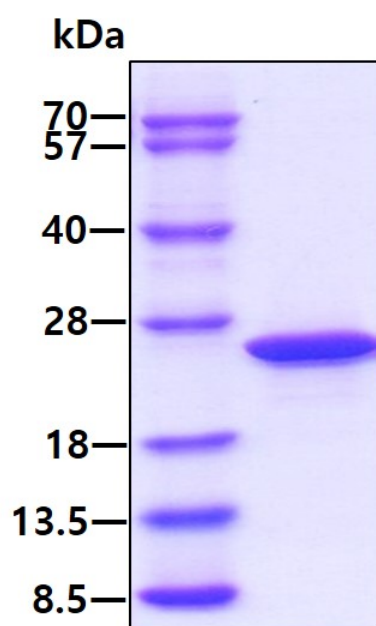
<MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSHM>SA PFSFLSNVKY NFMRIIKYEF ILNDALNQSI
IRANDQYLTA AALHNLDEAV KFDMGAYKSS KDDAKITVIL RISKTQLYVT AQDEDQPVLL KEMPEIPKTI TGSETNLLFF
WETHGTKNYF TSVAHPNLFI ATKQDYWVCL AGGPPSITDF QILENQA

General References

Misener VL., et al. (2008). Neuropsychobiology. 58(2):71-80.
Sarkar O., et al. (2008). Biol Reprod. 78(3):445-54.

DATA

SDS-PAGE

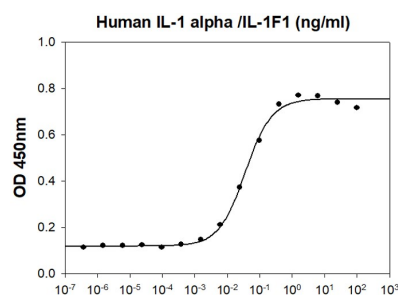


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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Human IL-1 alpha /IL-1F1 stimulates cell proliferation of the D10.G4.1 mouse helper T cell. The ED50 range is less or equal to 0.04 ng/ml.