

Recombinant human IL-1 alpha/IL1A protein

Catalog Number: ILA0801

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 Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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 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 IL-1a protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSHMSA PFSFLSNVKY NFMRIIKYEF ILNDALNQSI IRANDQYLTA
AALHNLDEAV KFDMGAYKSS KDDAKITVIL RISKTLQLYT AQDEDQPVLL KEMPEIPKTI TGSETNLLFF WETHGKKNYF
TSVAHPNLF I ATKQDYWVCL AGGPPSITDF QILENQA

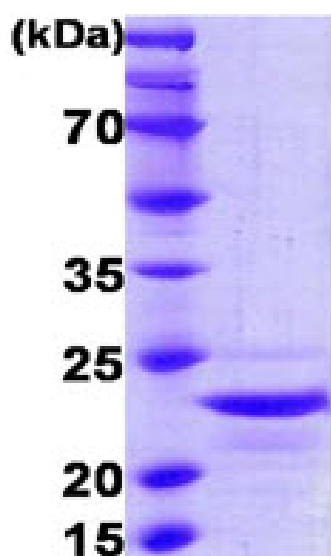
General References

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.

15% SDS-PAGE (3ug)