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### 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**

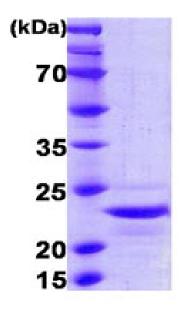
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMSA PFSFLSNVKY NFMRIIKYEF ILNDALNQSI IRANDQYLTA AALHNLDEAV KFDMGAYKSS KDDAKITVIL RISKTQLYVT AQDEDQPVLL KEMPEIPKTI TGSETNLLFF WETHGTKNYF TSVAHPNLFI ATKQDYWVCL AGGPPSITDF QILENQA

#### **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**



15% SDS-PAGE (3ug)

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

