## **PRODUCT INFORMATION**

Expression system E.coli

**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 20.4 kDa (179aa)

**Concentration** 1mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 85% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE, Denatured

## **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-1a is produced by activated macrophages, stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. This protein is involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells. Recombinant mouse IL1a protein, fused to His-tag at N-terminus, was expressed in E. coli.



### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSSAPYTYQ SDLRYKLMKL VRQKFVMNDS LNQTIYQDVD KHYLSTTWLN DLQQEVKFDM YAYSSGGDDS KYPVTLKISD SQLFVSAQGE DQPVLLKELP ETPKLITGSE TDLIFFWKSI NSKNYFTSAA YPELFIATKE QSRVHLARGL PSMTDFQIS

## **General References**

Beuscher H.u., et al (1988). J. Biol. Chem. 263:4023-4028

| PAGE     |   |   |
|----------|---|---|
| (kDa)    |   | 3ug by SDS-PAGE under reducing condition and visualized by<br>coomassie blue stain. |
| 70<br>57 |   |   |
| 40       |   |   |
| 28       | - |   |
| 18       |   |   |
| 13.5     |   |   |
| 8.5      | - |   |