# Recombinant mouse IL-1 beta/IL1B protein

Catalog Number: ILB0801

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
118-269aa

**UniProt No.**
P10749

**NCBI Accession No.**
NP_032387.1

**Alternative Names**
Interleukin-1 beta, IL-1 beta

## PRODUCT SPECIFICATION

**Molecular Weight**
21 kDa (189aa) confirmed by MALDI-TOF

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

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) 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-1beta is an inflammatory cytokine that might modulate angiogenesis by directly interacting with vascular endothelial cells or enhancing the production of proangiogenic factors via paracrine control. IL-1beta stimulates endothelial cell migration and proliferation, adhesion-molecule expression, inflammatory mediator production, and leukocyte recruitment. IL-1beta is required for tumor growth, metastasis, and angiogenesis in several animal models. Recombinant mouse IL-1beta, fused to His tag, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

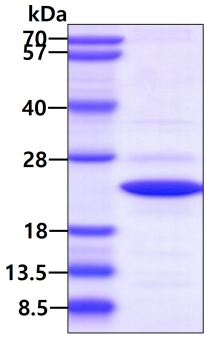
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MVPI RQLHYRLRDE QQKSLVLSDP YELKALHLNG QNINQQVIFS MSFVQGEPSN DKIPVALGLK GKNLYLSCVM KDGTPTLQLE SVDPKQYPKK KMEKRFVFNK IEVKSKVEFE SAEFPNWYIS TSQAEHKPVF LGNNSGQDII DFTMESVSS

### General References

Saijo Y, et al, (2002) J. Immunol. 169:469-475.
Torisu H, et al, (2000) J. Cancer. 85:182-188.

## DATA

### SDS-PAGE




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