PRODUCT INFORMATION

Expression system E.coli

Domain 118-269aa

UniProt No. P10749

NCBI Accession No. NP_032387

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

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 cells. The ED50 range \leq 0.1ng/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

Description

IL-1beta is an inflammatory cytokine that might modulate angiogenesis by directly interacting with vascular

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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.

Amino acid Sequence

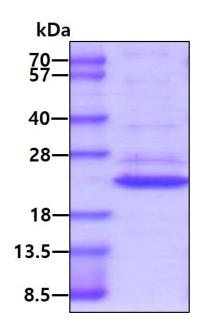
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MVPI RQLHYRLRDE QQKSLVLSDP YELKALHLNG QNINQQVIFS MSFVQGEPSN DKIPVALGLK GKNLYLSCVM KDGTPTLQLE SVDPKQYPKK KMEKRFVFNK IEVKSKVEFE SAEFPNWYIS TSQAEHKPVF LGNNSGQDII DFTMESVSS

General References

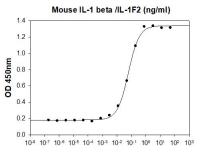
Saijo Y, et al, (2002) J. Immunol. 169:469-475. Torisu H, et al, (2000) J. Cancer. 85:182-188.

DATA

SDS-PAGE



Biological Activity



Mouse IL-1 beta /IL-1F2 stimulates cell proliferation of the D10.G4.1 mouse helper T cells. The ED50 range ≤ 0.1 ng/ml.

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