PRODUCT INFORMATION

Expression system E.coli

Domain 117-269aa

UniProt No. P01584

NCBI Accession No. NP_000567.1

Alternative Names Interleukin-1 beta, IL-1 beta, Catabolin, IL1F2

PRODUCT SPECIFICATION

Molecular Weight 17 kDa (154aa) confirmed by MALDI-TOF

Concentration 1mg/ml (determined by BCA assay)

Formulation Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity > 95% 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 12pg/ml.

Tag Non-Tagged

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

Interleukin-1 (IL-1) has been considered a potentially important inflammatory mediator. It is composed of two

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NKMAXBio we support you, we believe in your research Recombinant human IL-1 beta/IL1B protein Catalog Number: ILB0701

distinct proteins, called as IL-1alpha and IL-1beta. IL-1beta is a proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1alpha and IL-1beta bind to the same receptor and they are structurally related polypeptides that share approximately 20% amino acid. Recombinant human IL-1beta was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

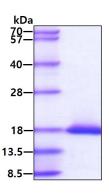
MAPVRSLNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG EESNDKIPVA LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF VFNKIEINNK LEFESAQFPN WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

General References

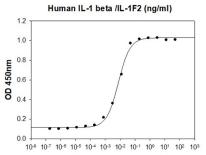
Allan SM., et al. (2005), Nat. Rev. Immunol. 5:629. Michaud DS., et al. (2006), Cancer Res.66(8):4525-30

DATA

SDS-PAGE



Biological Activity



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

Human IL-1 beta /IL-1F2 stimulates cell proliferation of the D10.G4.1 mouse helper T cells. The ED50 range \leq 12 pg/ml.