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Recombinant human IL-1 beta/IL1B protein

Catalog Number: ILB0701

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 ≤ 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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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

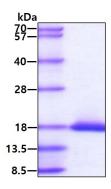
MAPVRSLNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG EESNDKIPVA LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF VFNKIEINNK LEFESAQFPN WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

General References

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

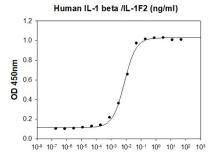
DATA

SDS-PAGE



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

Biological Activity



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.

