

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 $\leq$ 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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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

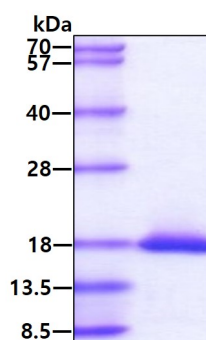
MAPVRSLNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG EESNDKIPVA LGLKEKNLYL SCVLKDDKPT
LQLESVDPKN YPKKKMEKRF VFNKIEINN K LEFESAQFPN WYISTSQAEN MPVFLGGTKG GQDITDFTMQ FVSS

General References

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

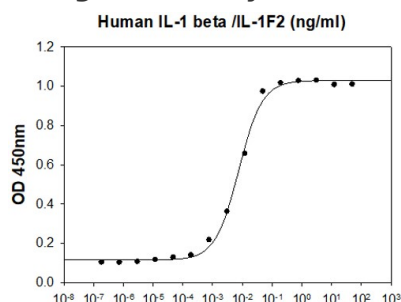
DATA

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 ≤ 12 pg/ml.