

# Biotinylated Recombinant Human IL-1 beta Protein

Catalog No.: RP00454B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3553	P01584

### Tags

C-His&Avi

### Synonyms

Interleukin-1 beta; IL-1 beta; IL1F2; IL1B; IL-1BETA; IL1F2; IL-1β; IL-1 beta; IL-1B ;Interleukin-1 β; IL-1 β; IL-1β; IL-1 β

## Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE > 95% by HPLC

Calculated MW	Observed MW
20.1 kDa	20 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Interleukin-1 beta (IL-1β) is induced by inflammatory signals in a broad number of immune cell types. IL-1β (and IL-18) are the only cytokines which are processed by caspase-1 after inflammasome-mediated activation. IL-1 signaling activates innate immune cells including antigen presenting cells, and drives polarization of CD4 T cells towards T helper type (Th) 1 and Th17 cells.

## Basic Information

### Description

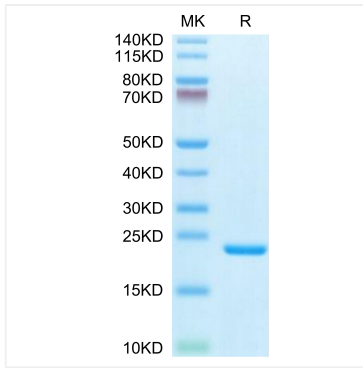
Biotinylated Recombinant Human IL-1 beta Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala117-Ser269) of Human IL-1 Beta/IL-1F2 (Accession #P01584) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

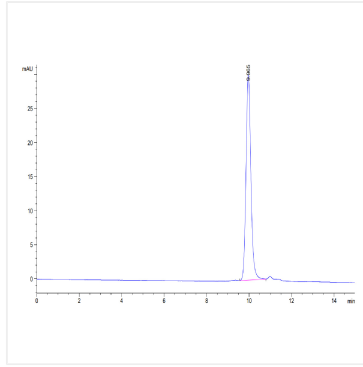
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

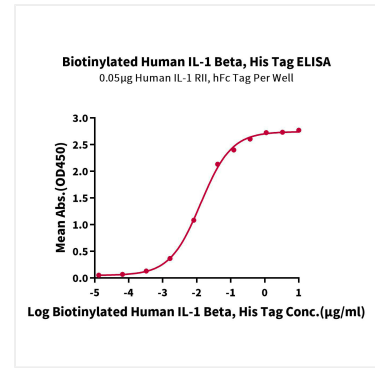
## Validation Data



Biotinylated Human IL-1 Beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human IL-1 Beta is greater than 95% as determined by SEC-HPLC.



Immobilized Human IL-1R2, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human IL-1 Beta, His Tag with the EC<sub>50</sub> of 13.1 ng/mL determined by ELISA.