

Datasheet for ABIN7274883

IL-1 beta Protein (AA 117-269) (His-Avi Tag,Biotin)**4** Images[Go to Product page](#)

Overview

| | |
|-------------------------------|---|
| Quantity: | 100 µg |
| Target: | IL-1 beta (IL1B) |
| Protein Characteristics: | AA 117-269 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This IL-1 beta protein is labelled with His-Avi Tag,Biotin. |

Product Details

| | |
|------------------------------|---|
| Purpose: | Biotinylated Human IL-1 Beta/IL-1F2 Protein |
| Sequence: | Ala117-Ser269 |
| Characteristics: | Recombinant Biotinylated Human IL-1 Beta/IL-1F2 Protein is expressed from E.coil with His tag and Avi tag at the C-Terminus.It contains Ala117-Ser269. |
| Purity: | > 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1EU per µg by the LAL method. |
| Biological Activity Comment: | Immobilized Human IL-1R2, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-1 Beta, His Tag with the EC50 of 7.6ng/ml determined by ELISA. See testing image for detail. |

Target Details

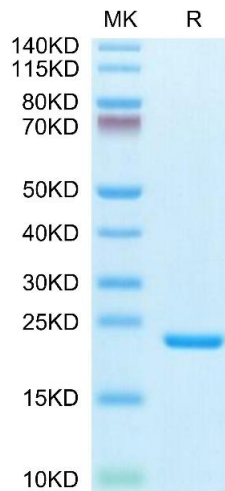
| | |
|-------------------|--|
| Target: | IL-1 beta (IL1B) |
| Alternative Name: | IL-1 Beta (IL1B Products) |
| Background: | Interleukin-1 beta (IL-1 β) is induced by inflammatory signals in a broad number of immune cell types. IL-1 β (and IL-18) are the only cytokines which are processed by caspase-1 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. |
| Molecular Weight: | 20.1 kDa same as Tris-Bis PAGE result. |
| UniProt: | P01584 |
| Pathways: | NF-kappaB Signaling , Interferon-gamma Pathway , TLR Signaling , Negative Regulation of Hormone Secretion , Cellular Response to Molecule of Bacterial Origin , Carbohydrate Homeostasis , Glycosaminoglycan Metabolic Process , Myometrial Relaxation and Contraction , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Autophagy , Cancer Immune Checkpoints , Inflammasome |

Application Details

| | |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

Handling

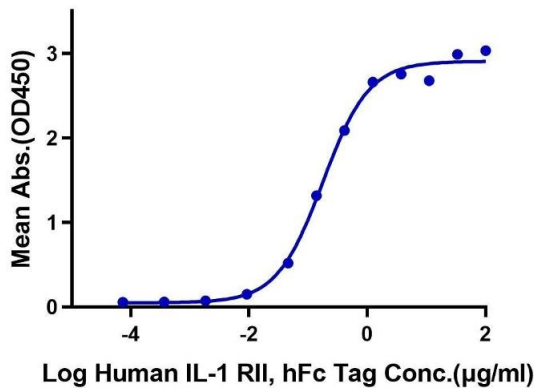
| | |
|------------------|--|
| Format: | Lyophilized |
| Reconstitution: | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water. |
| Buffer: | Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization. |
| Storage: | -20 $^{\circ}$ C,-80 $^{\circ}$ C |
| Storage Comment: | -20 to -80 $^{\circ}$ C for 12 months as supplied from date of receipt., -80 $^{\circ}$ C for 3-6 months after reconstitution., 2-8 $^{\circ}$ C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| Expiry Date: | 12 months |



SDS-PAGE

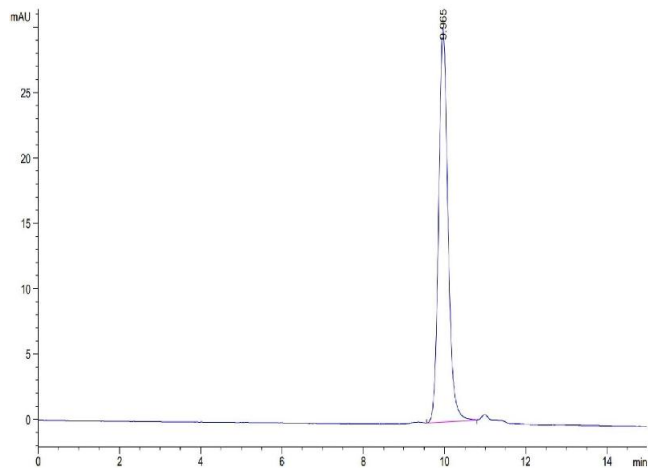
Image 1. Biotinylated Human IL-1 Beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Biotinylated Human IL-1 Beta, His Tag ELISA
0.5µg Biotinylated Human IL-1 Beta, His Tag Per Well



ELISA

Image 2. Immobilized Biotinylated Human IL-1 Beta, His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Human IL-1 RII, hFc Tag with the EC50 of 0.48 µ g/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Human IL-1 Beta is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274883.