

Biotinylated Recombinant Human IL-1 beta Protein

Catalog No.: RP00454B

Sequence Information

Species	Gene ID
Human	3553
Swiss Prot	Tags
P01584	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 % as determined by SDS-PAGE; ≥ 95 % as determined 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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for
handling.

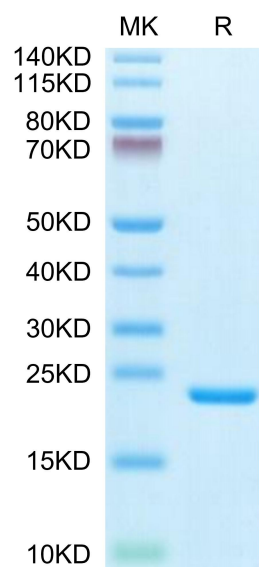
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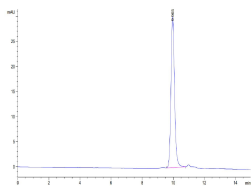
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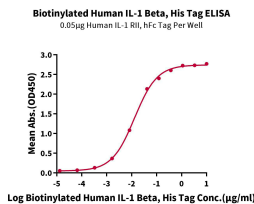
Validation Data



Biotinylated Recombinant Human IL-1 beta Protein was determined by Tris-Bis PAGE under reducing conditions.



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 EC₅₀ of 13.1 ng /mL determined by ELISA.