

Biotinylated Human IL-1 Beta/IL-1F2 Protein

Cat. No. IL1-HE40BB

Description

Source	Recombinant Biotinylated Human IL-1 Beta/IL-1F2 Protein is expressed from E.coil with His tag and Avi tag at the C-terminal. It contains Ala117-Ser269.
Accession	P01584
Molecular Weight	The protein has a predicted MW of 20.1 kDa same as Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

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.

Assay Data

Tris-Bis PAGE



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

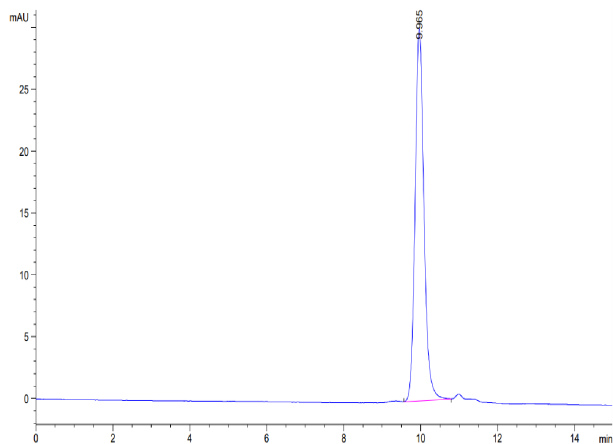
SEC-HPLC

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Assay Data



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

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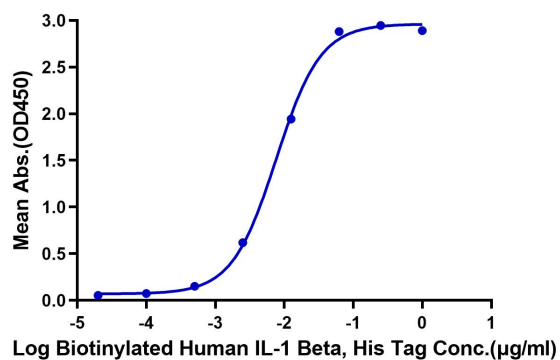


Assay Data

ELISA Data

Biotinylated Human IL-1 Beta, His Tag ELISA

0.05µg Human IL-1R2, hFc Tag Per Well



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.