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-Terminus.
	It contains Ala117-Ser269.
Accession	P01584
Molecular Weight	The protein has a predicted MW of 20.1 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

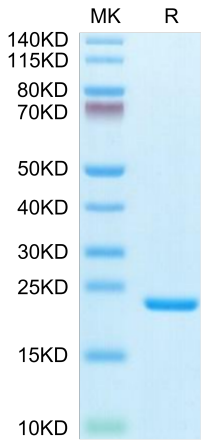
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

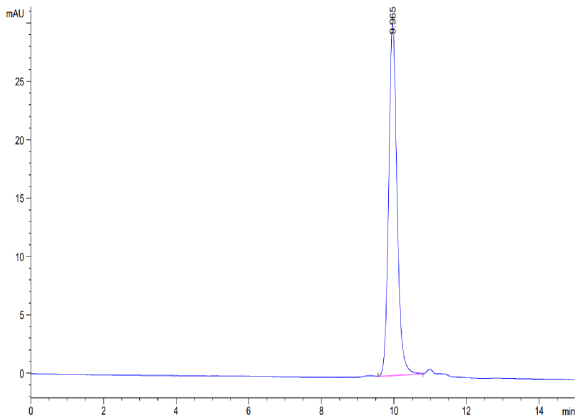
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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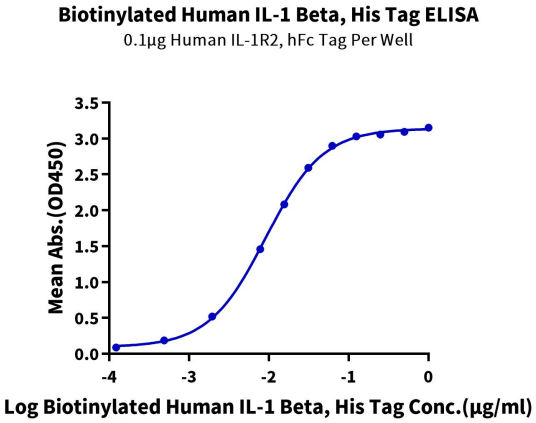
Assay Data

ELISA Data



Immobilized Human IL-1R2, hFc Tag at 1 μg/ml (100 μl/well) on the plate. Dose response curve for Biotinylated Human IL-1 Beta, His Tag with the EC50 of 9.2 ng/ml determined by ELISA.

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