

Human IL-1 Beta/IL-1F2 Protein

Cat. No. IL1-HE10B



Description

Source	Recombinant Human IL-1 Beta/IL-1F2 Protein is expressed from E.coli with His tag at the N-terminus. It contains Ala117-Ser269.
Accession	P01584
Molecular Weight	The protein has a predicted MW of 18.47 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

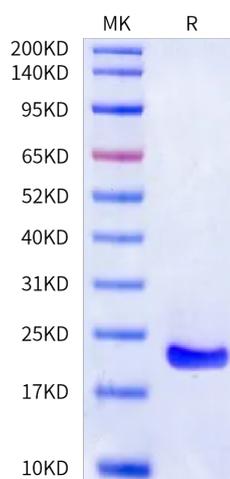
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 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-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.

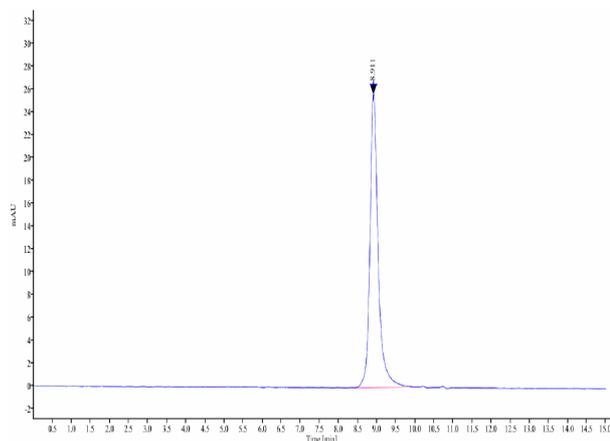
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



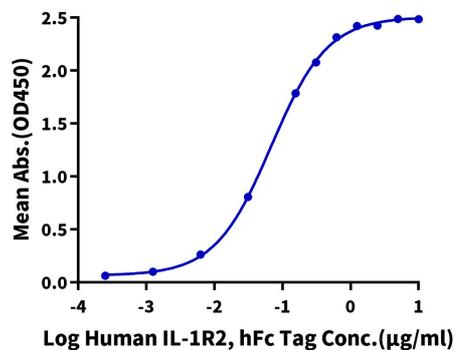
The purity of Human IL-1 Beta is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human IL-1 Beta, His Tag ELISA

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



Immobilized Human IL-1 Beta, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-1R2, hFc Tag with the EC50 of 68.4ng/ml determined by ELISA.