

# Cynomolgus IL-1 Beta/IL-1F2 Protein

Cat. No. IL1-CE10B

## Description

<b>Source</b>	Recombinant Cynomolgus IL-1 Beta/IL-1F2 Protein is expressed from E.coli with His tag at the C-Terminus. It contains Ala117-Ser268.
<b>Accession</b>	A0A2K5VDC7
<b>Molecular Weight</b>	The protein has a predicted MW of 18.33 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

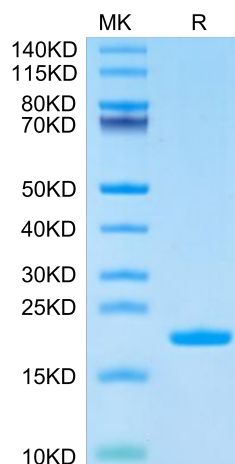
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS,100mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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 minimize freeze-thaw cycles.

## Background

Interleukin-1 beta (IL-1 $\beta$ ) is induced by inflammatory signals in a broad number of immune cell types. IL-1 $\beta$  (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

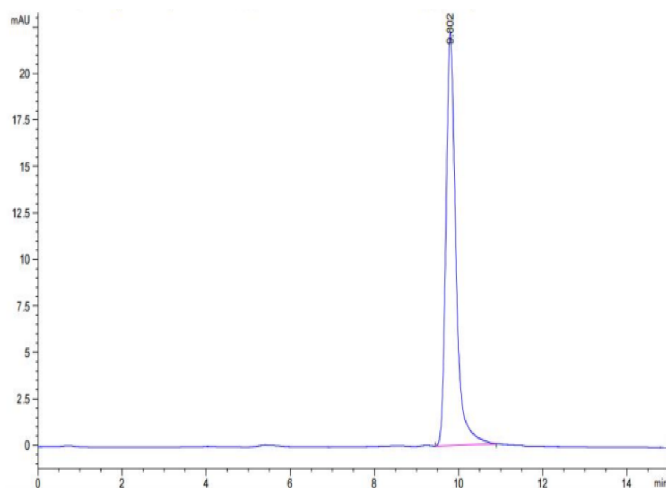
### Tris-Bis PAGE



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

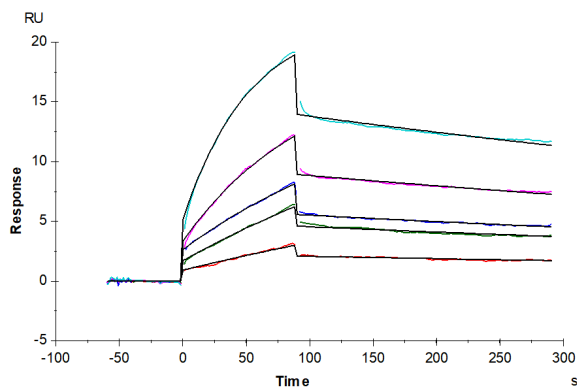
### SEC-HPLC

Assay Data



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

SPR Data



Human IL-1 RII, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus IL-1 Beta, His Tag with an affinity constant of 1.40 nM as determined in SPR assay (Biacore T200).