

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

Cat. No. IL1-CE10B

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

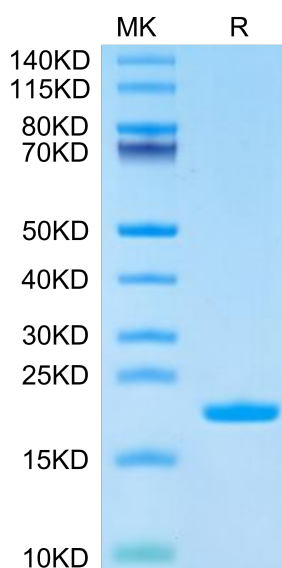
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS,100mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 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 $\beta$ ) 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

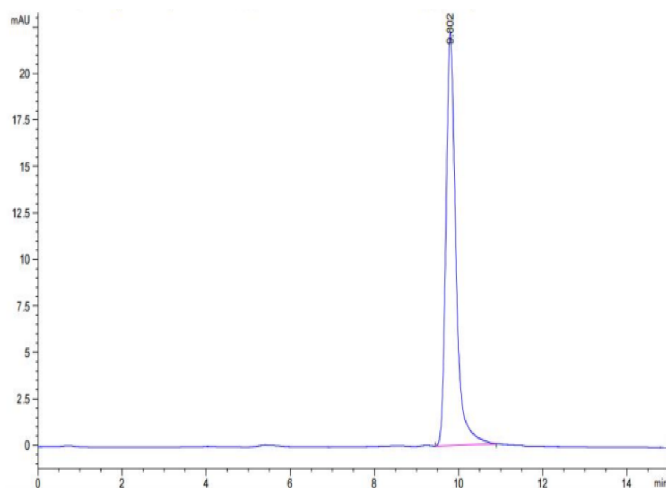
### Bis-Tris PAGE



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

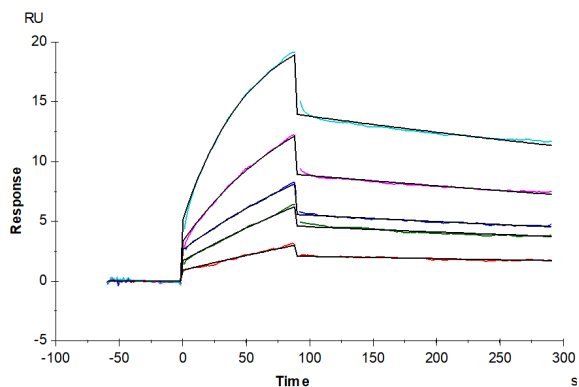
### SEC-HPLC

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).