

# Cynomolgus IL-1 alpha/IL-1A Protein

Cat. No. IL1-CM01A



## Description

<b>Source</b>	Recombinant Cynomolgus IL-1 alpha/IL-1A Protein is expressed from HEK293 without tag. It contains Ser113-Ala271.
<b>Accession</b>	P79340
<b>Molecular Weight</b>	The protein has a predicted MW of 18.13 kDa. Due to glycosylation, the protein migrates to 26-33 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

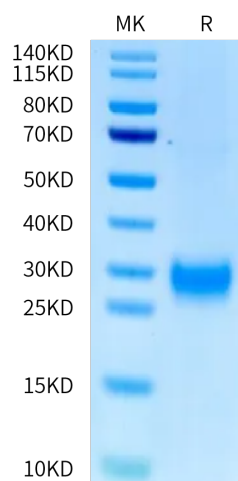
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The interleukin (IL)-1 family of cytokines is currently comprised of 11 members that have pleiotropic functions in inflammation and cancer. IL-1 $\alpha$  and IL-1 $\beta$  were the first members of the IL-1 family to be described, and both signal via the same receptor, IL-1R. Over the last decade, much progress has been made in our understanding of biogenesis of IL-1 $\beta$  and its functions in human diseases.

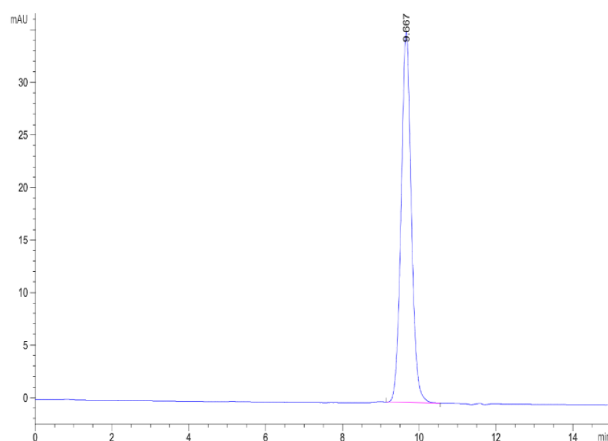
## Assay Data

### Bis-Tris PAGE



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

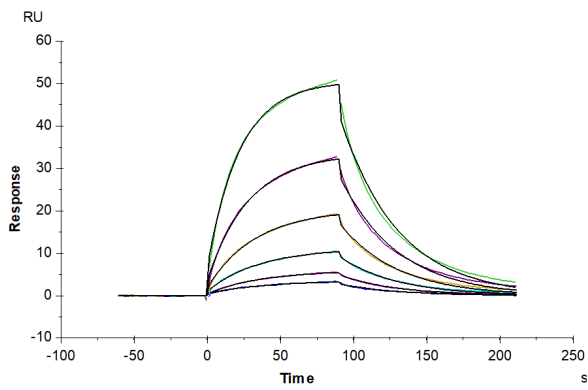
### SEC-HPLC



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

Assay Data

SPR Data



Human IL-1R1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-1 alpha, No Tag with an affinity constant of 10.68  $\mu$ M as determined in SPR assay (Biacore T200).