Cynomolgus IL-18 Protein

Cat. No. IL1-CE018

Description

Source	Recombinant Cynomolgus IL-18 Protein is expressed from E.coli without tag.
	It contains Tyr37-Asp193.
Accession	A0A2K5TJ84
Molecular Weight	The protein has a predicted MW of 18.27 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

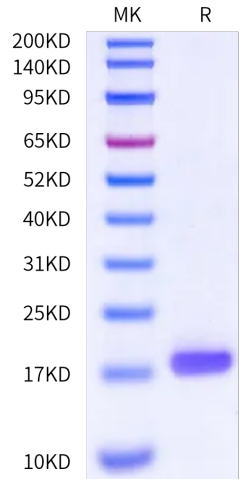
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 (IL)-18 was originally discovered as a factor that enhanced IFN-γ production from anti-CD3-stimulated Th1 cells, especially in the presence of IL-12. Upon stimulation with Ag plus IL-12, naïve T cells develop into IL-18 receptor (IL-18R) expressing Th1 cells, which increase IFN-γ production in response to IL-18 stimulation.

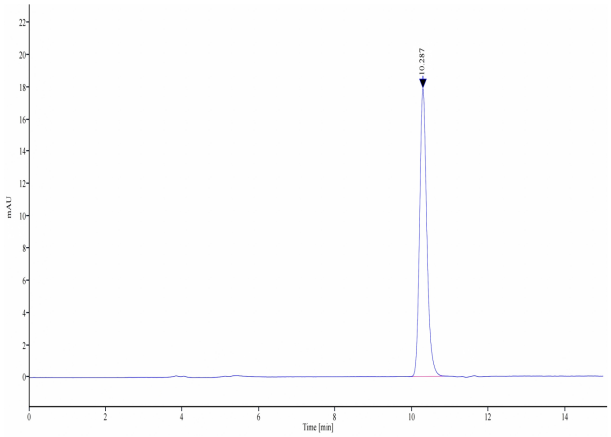
Assay Data

Bis-Tris PAGE



Cynomolgus IL-18 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Cynomolgus IL-18 is greater than 95% as determined by SEC-HPLC.

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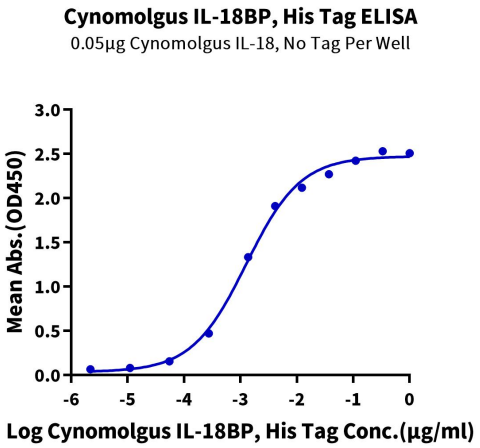
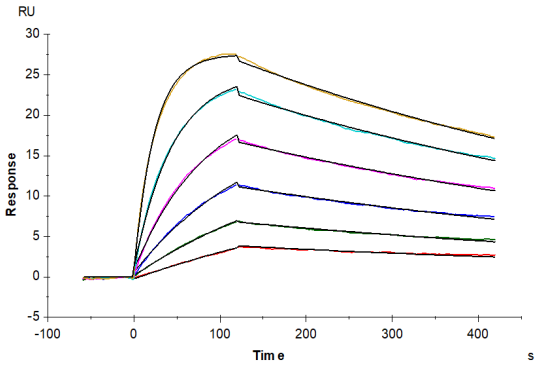
Assay Data

ELISA Data



Immobilized Cynomolgus IL-18, No Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Cynomolgus IL-18BP, His Tag (Cat. IL8-CM1BP) with the EC50 of 1.3ng/ml determined by ELISA.

SPR Data



Cynomolgus IL-18BP, His Tag (Cat. IL8-CM1BP) captured on CM5 Chip via Anti-His Antibody can bind Cynomolgus IL-18, No Tag with an affinity constant of 0.73 nM as determined in SPR assay (Biacore T200).