Biotinylated Cynomolgus IL-18 Protein

Cat. No. IL1-CE618B

Description

Source	Recombinant Biotinylated Cynomolgus IL-18 Protein is expressed from E.coli with Avi tag at the C-terminus.
	It contains Tyr37-Asp193.
Accession	A0A2K5TJ84
Molecular Weight	The protein has a predicted MW of 20.34 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

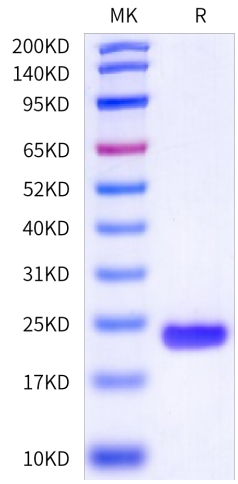
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

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.

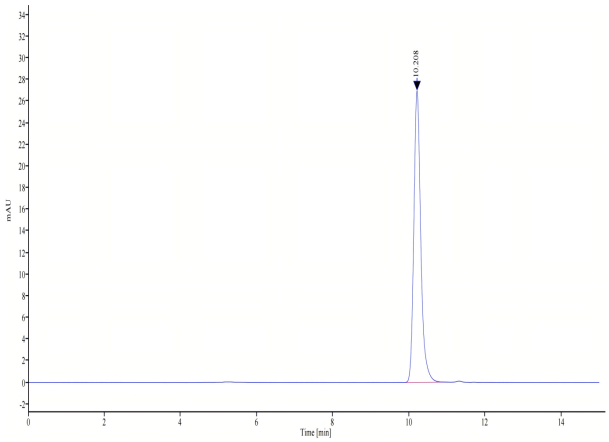
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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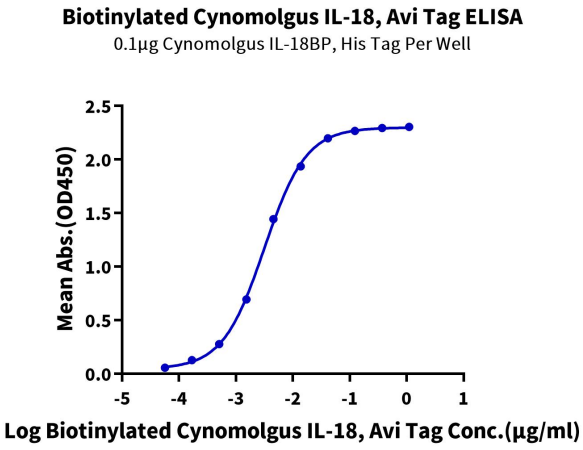
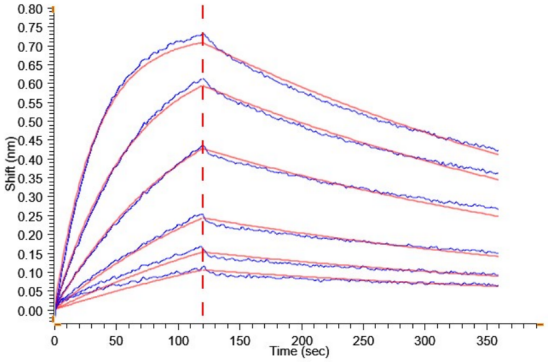
Assay Data

ELISA Data



Immobilized Cynomolgus IL-18BP, His Tag (Cat. IL8-CM1BP) at 1μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Cynomolgus IL-18, Avi Tag with the EC50 of 3.2ng/ml determined by ELISA.

BLI Data



Loaded Biotinylated Cynomolgus IL-18, Avi Tag on Steptavidin-Biosensor can bind Cynomolgus IL-18 R1, His Tag (Cat. IL8-CM1R1) with an affinity constant of 4.11 nM as determined in BLI assay.