Biotinylated Human IL-18 Protein (Primary Amine Labeling)

Cat. No. IL1-HE018B

Description

Source	Recombinant Biotinylated Human IL-18 Protein (Primary Amine Labeling) is expressed from E.coli without tag.
	It contains Tyr37-Asp193.
Accession	Q14116
Molecular Weight	The protein has a predicted MW of 18.2 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE; > 90% as determined by HPLC

Formulation and Storage

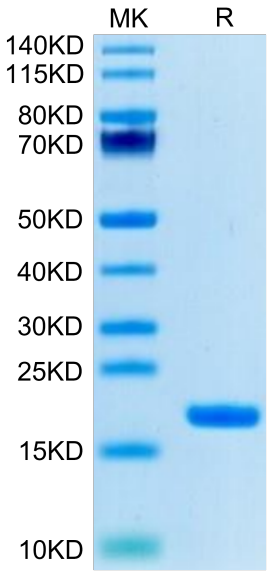
Formulation	Supplied as 0.22 μm filtered solution in 20 mM PB, 250 mM NaCl, 50 mM L-arginine (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

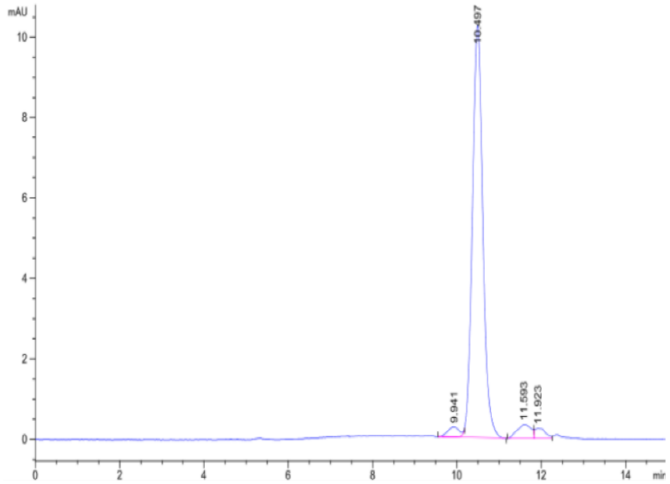
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Biotinylated Human IL-18 is greater than 90% as determined by SEC-HPLC.

ELISA Data

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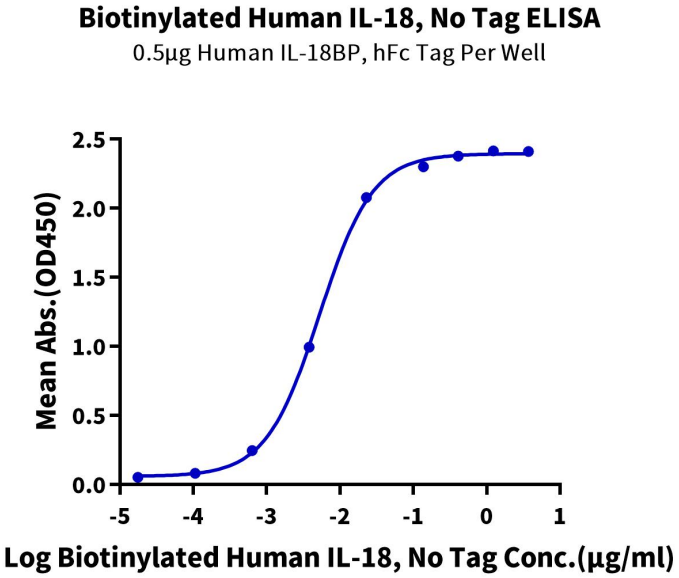
Assay Data



Immobilized Human IL-18BP, hFc Tag at 5 μg/ml (100 μl/well) on the plate. Dose response curve for Biotinylated Human IL-18, No Tag with the EC50 of 5.2 ng/ml determined by ELISA.