

Biotinylated Human IL-5 Protein



Cat. No. IL5-HM401B

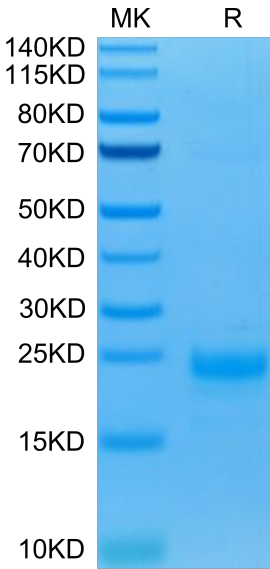
Description	
Source	Recombinant Biotinylated Human IL-5 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. It contains Ile20-Ser134.
Accession	P05113
Molecular Weight	The protein has a predicted MW of 16.1 kDa. Due to glycosylation, the protein migrates to 18-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 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 0.22µm 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 24 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	
IL-5 is an important cytokine for priming and survival of mature eosinophils and for proliferation and maturation of their progenitors. IL-5(Rα) targeting will be increasingly used in diseases where eosinophils are the key immune effector cells such as eosinophilic asthma (EA), hypereosinophilic syndrome (HES), eosinophilic esophagitis (EE), and eosinophilic granulomatosis with polyangiitis (EGPA).	

Assay Data

Bis-Tris PAGE



Biotinylated Human IL-5 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

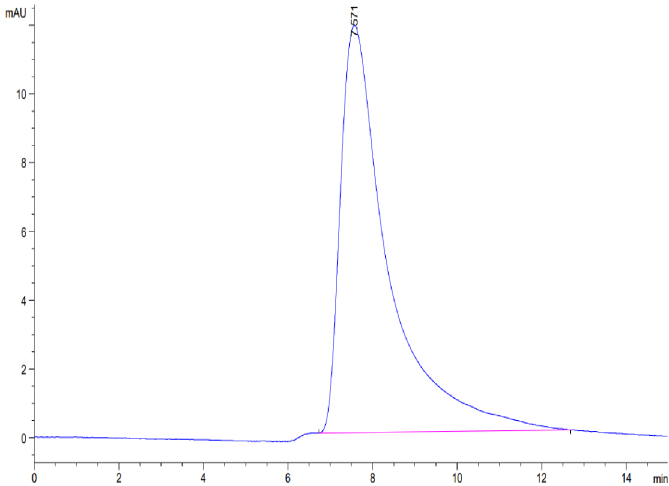
SEC-HPLC

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Assay Data

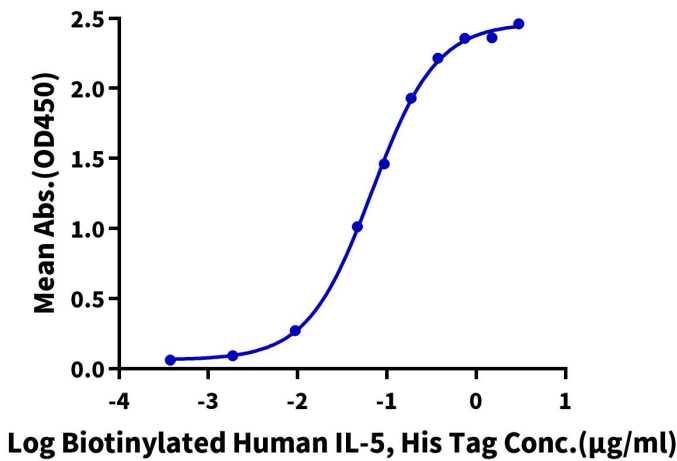


The purity of Biotinylated Human IL-5 is greater than 95% as determined by SEC-HPLC.

ELISA Data

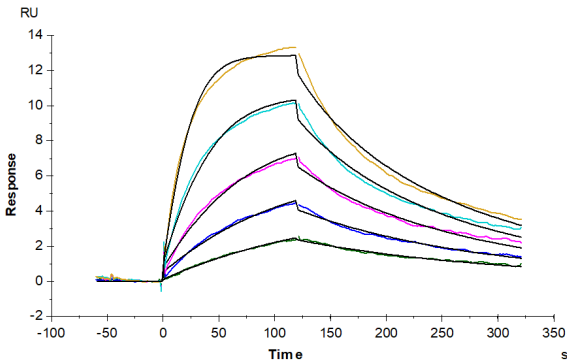
Biotinylated Human IL-5, His Tag ELISA

0.2µg Human IL-5 R alpha, hFc Tag Per Well



Immobilized Human IL-5 R alpha, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human IL-5, His Tag with the EC50 of 68.2ng/ml determined by ELISA (QC Test).

SPR Data



Human IL-5 R alpha, His Tag immobilized on CM5 Chip can bind Biotinylated Human IL-5, His-Avi Tag with an affinity constant of 7.57 nM as determined in SPR assay (Biacore T200).