

Biotinylated Human IL-23 alpha&Mouse IL-12 beta Protein



Cat. No. ILB-HM4ABB

Description	
Source	Recombinant Biotinylated Human IL-23 alpha&Mouse IL-12 beta Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Arg20-Pro189 (Human IL-23 alpha) and Met23-Ser335 (Mouse IL-12 beta).
Accession	Q9NPF7(Human IL-23 alpha)&P43432-1(Mouse IL-12 beta)
Molecular Weight	The protein has a predicted MW of 21.7 kDa (Human IL-23 alpha) & 35.8 kDa (Mouse IL-12 beta). Due to glycosylation, the protein migrates to 22-25 kDa (Human IL-23 alpha) & 45-60 kDa (Mouse IL-12 beta) based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU 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)-12 and IL-23 belong to the IL-12 type family and are composite cytokines, consisting of the common β subunit p40 and the specific cytokine α subunit p35 and p19, respectively. IL-12 signals via the IL-12Rβ1·IL-12Rβ2 receptor complex, and IL-23 uses also IL-12Rβ1 but engages IL-23R as second receptor.	

Assay Data

Bis-Tris PAGE



Biotinylated Human IL-23 alpha&Mouse IL-12 beta on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

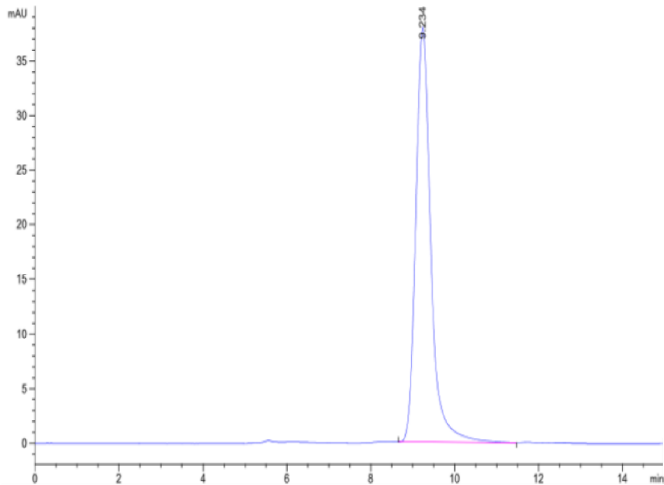
SEC-HPLC

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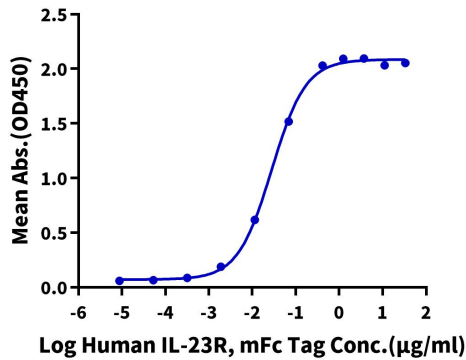
Assay Data



The purity of Biotinylated Human IL-23 alpha&Mouse IL-12 beta is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human IL-23 alpha & Mouse IL-12 beta, His Tag ELISA**  
0.1µg Biotinylated Human IL-23 alpha & Mouse IL-12 beta, His Tag Per Well



Immobilized Biotinylated Human IL-23 alpha & Mouse IL-12 beta, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human IL-23R, mFc Tag with the EC50 of 28.1ng/ml determined by ELISA.