Mouse IL-23 alpha&IL-12 beta Protein

Cat. No. IL2-MM1AB

Description

Source	Recombinant Mouse IL-23 alpha&IL-12 beta Protein is expressed from HEK293 with His tag at the N-Terminus.
	It contains Val22-Ala196(IL-23 alpha)&Met23-Ser335(IL-12 beta).
Accession	Q9EQ14-1(IL-23 alpha)&P43432-1(IL-12 beta)
Molecular Weight	The protein has a predicted MW of 20.8 (Mouse IL-23 alpha)&35.8 (Mouse IL-12 beta) kDa. Due to glycosylation, the protein migrates to 22 (Mouse IL-23 alpha)&45-50 (Mouse IL-12 beta) kDa 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

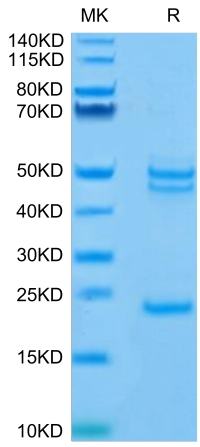
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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.

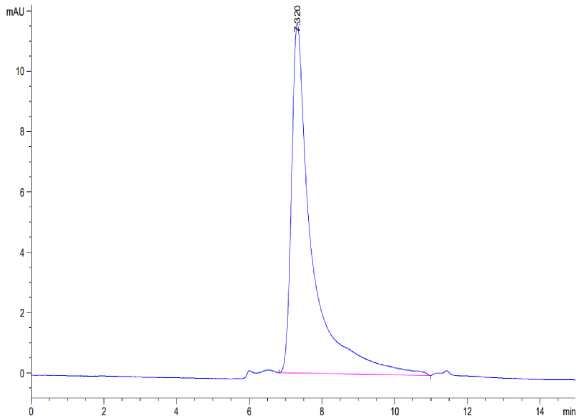
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

Mouse IL-23 alpha&IL-12 beta Protein

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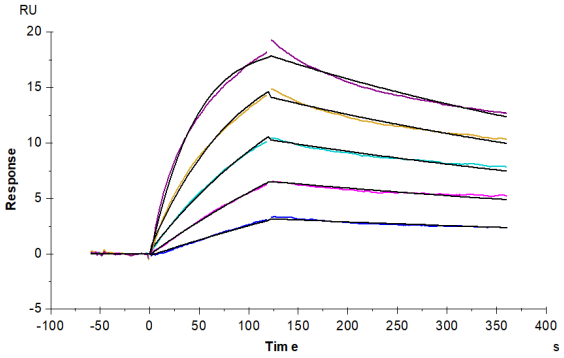
Assay Data

SPR Data



Mouse IL-23R, His Tag immobilized on CM5 Chip can bind Mouse IL-23 alpha&IL-12 beta, His Tag with an affinity constant of 6.31 nM as determined in SPR assay (Biacore T200).