

Mouse IL-12 Protein

Cat. No. IL1-MM112



Description

Source	Recombinant Mouse IL-12 Protein is expressed from HEK293 with His tag at the C-Terminus of IL-12A.
	It contains Arg23-Ala215(IL-12A) and Met23-Ser335(IL-12B).
Accession	P43431(IL-12A)&P43432(IL-12B)
Molecular Weight	The protein has a predicted MW of 22.80 kDa(IL-12A)&35.79 kDa(IL-12B). Due to glycosylation, the protein migrates to 25-30 kDa(IL-12A)&45-55 kDa(IL-12B) 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 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 12 (IL-12) is a pleiotropic cytokine that plays an essential role in Th1-type immune response against cancer, a condition where cells in a particular part of the body grow and reproduce uncontrollably.

Assay Data

Bis-Tris PAGE



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

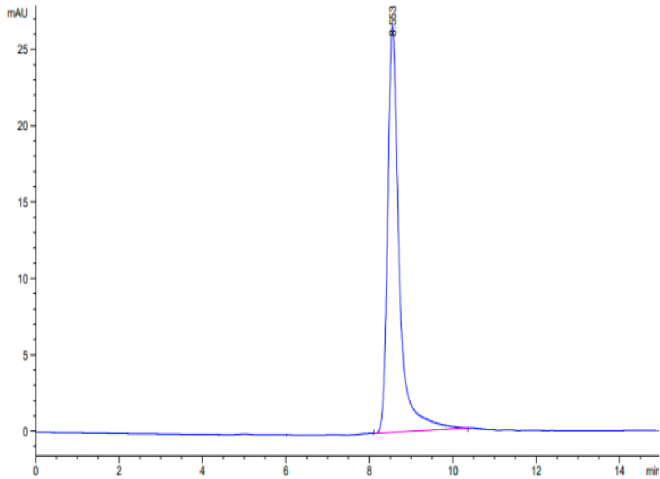
SEC-HPLC

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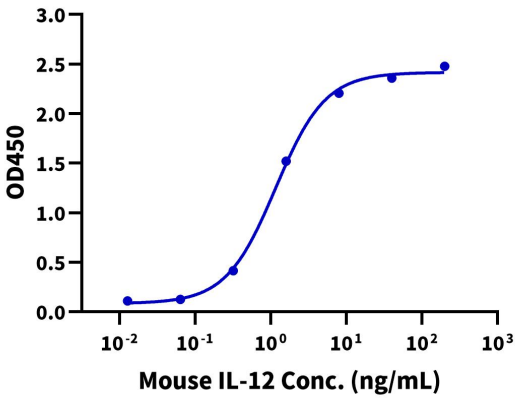
Assay Data



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

Cell Based Assay

Recombinant Mouse IL-12 Bioactivity



Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 0.5 - 2 ng/mL.