

Mouse IL-4 Protein, Ultra Low Endotoxin

Cat. No. IL4-MM101-UL

Description

Source	Recombinant Mouse IL-4 Protein is expressed from HEK293 with His tag at the C-terminus. It contains His21-Ser140.
Accession	P07750
Molecular Weight	The protein has a predicted MW of 15.17 kDa. Due to glycosylation, the protein migrates to 20-30 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

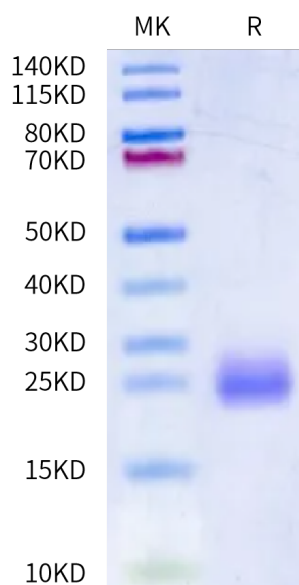
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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-4, also known as IL4, is a secreted protein which belongs to the IL-4 / IL-13 family. Interleukin-4 / IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. In the presence of IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, And this cytokine is a ligand for interleukin 4 receptor.

Assay Data

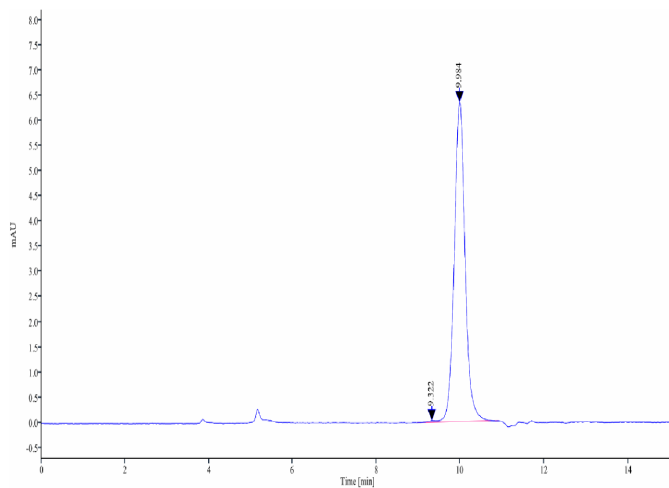
Bis-Tris PAGE



Mouse IL-4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

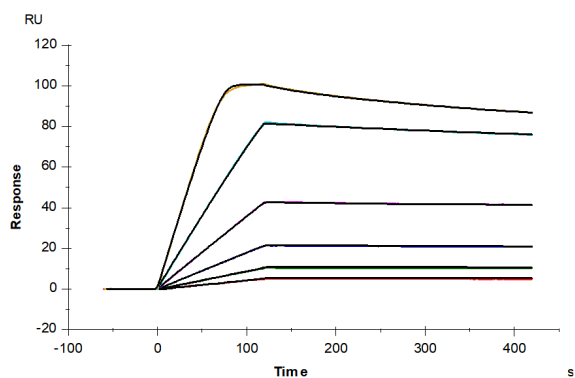
SEC-HPLC

Assay Data



The purity of Mouse IL-4 is greater than 95% as determined by SEC-HPLC.

SPR Data



Mouse IL-4 R alpha, His Tag (Cat. ILA-MM14R) immobilized on CM5 Chip can bind Mouse IL-4, His Tag with an affinity constant of 21.13 pM as determined in SPR assay (Biacore S200).