Mouse IL-7 Protein

Cat. No. IL7-MM107

Description

Source	Recombinant Mouse IL-7 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Glu26-Ile154.
Accession	P10168
Molecular Weight	The protein has a predicted MW of 16.51 kDa. Due to glycosylation, the protein migrates to 28-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

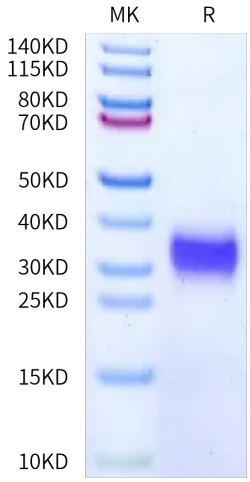
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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-7 (IL7) plays a nonredundant role in T cell survival and homeostasis, which is illustrated in the severe T cell lymphopenia of IL7-deficient mice, or demonstrated in animals or humans that lack expression of either the IL7Rα or γ c chain, the two subunits that constitute the functional IL7 receptor.

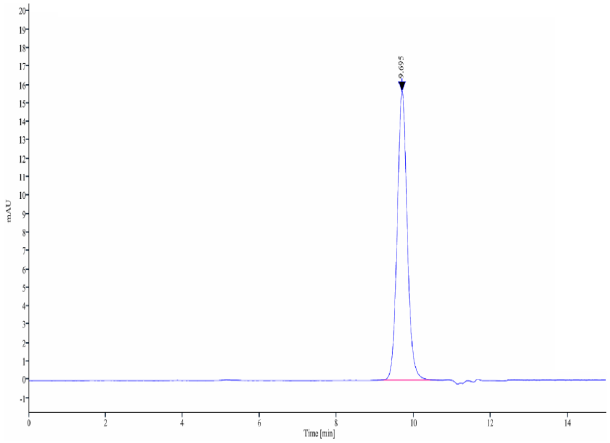
Assay Data

Bis-Tris PAGE



Mouse IL-7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Mouse IL-7 is greater than 95% as determined by SEC-HPLC.

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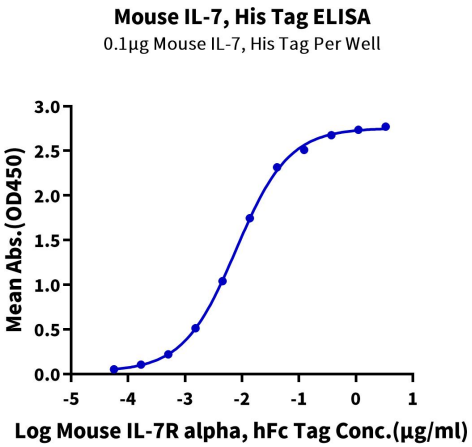
Assay Data

ELISA Data



Immobilized Mouse IL-7, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Mouse IL-7R alpha, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA.