Human IL-9 Protein

Cat. No. IL9-HM101



Description		
Source	Recombinant Human IL-9 Protein is expressed from HEK293 with His tag at the C-Terminus.	
	It contains Gln19-Ile144.	
Accession	P15248	
Molecular Weight	The protein has a predicted MW of 15.3 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.	
Endotoxin	Less than 1EU per μg by the LAL method.	
Purity	> 95% as determined by Tris-Bis PAGE	
	> 95% as determined by HPLC	
Formulation and Storage		

Formulation	Lyophilized from 0.22µm filtered solution in 20mM Tris, 150mM NaCl (pH 7.5). 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.	

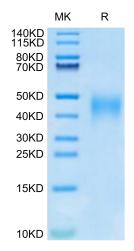
Dissolve the lyophilized protein in distilled water. -20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for

Storage reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. Background

IL-9 is a pleiotropic cytokine that influences various distinct functions of different target cells such as T cells, B cells, mast cells and airway epithelial cells by activating STAT1, STAT3 and STAT5. Because of its pleiotropic functions, IL-9 has been demonstrated to be involved in several diseases, such as cancer, autoimmunity and other pathogen-mediated immune-regulated diseases. In this review, we focus on the role of Th9 and IL-9-producing cells in allergic asthma.

Assay Data

Tris-Bis PAGE

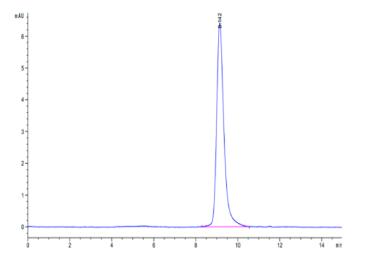


Human IL-9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

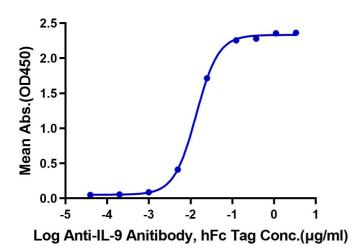
Assay Data



The purity of Human IL-9 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human IL-9, His Tag ELISA 0.02µg Human IL-9, His Tag Per Well



Immobilized Human IL-9, His Tag at 0.2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-IL-9 Anitibody, hFc Tag with the EC50 of 13.6ng/ml determined by ELISA.