Rat IL-25/IL-17E Protein

Cat. No. IL2-RM125

Description

Source	Recombinant Rat IL-25/IL-17E Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Val17-Ala169.
Accession	NP_001178936.1
Molecular Weight	The protein has a predicted MW of 19.32 kDa. Due to glycosylation, the protein migrates to 26-30 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

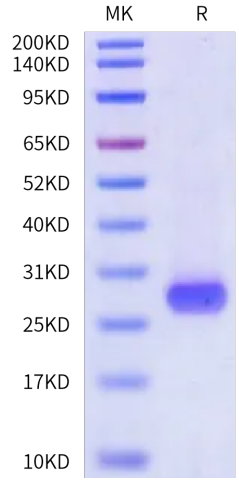
Formulation	Lyophilized from 0.22 μm filtered solution in PBS, 200mM L-arginine, 8% trehalose (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

IL-25, also known as IL-17E, is a member of the IL-17 cytokine family mostly produced by epithelial cells and innate immune cells. After binding to the IL-17RB/IL-17RA complex, IL-25 induces downstream signaling responses in epithelial cells and type 2 lymphocytes, which initiates, propagates, and sustains type 2 immunity. The function of IL-25 in allergic diseases such as asthma has been well established, and now also is extended to diseases such as inflammatory bowel disease and cancer.

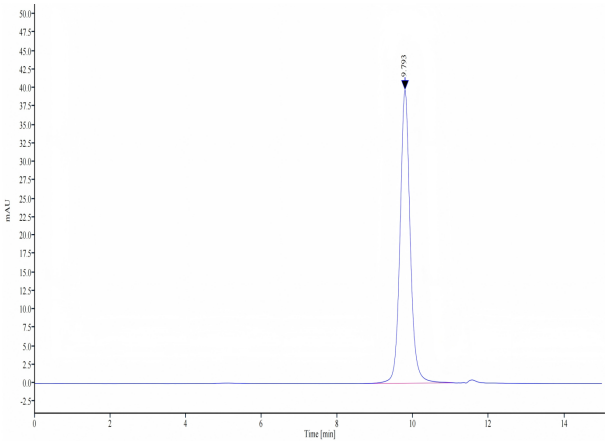
Assay Data

Bis-Tris PAGE



Rat IL-25 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Rat IL-25 is greater than 95% as determined by SEC-HPLC.

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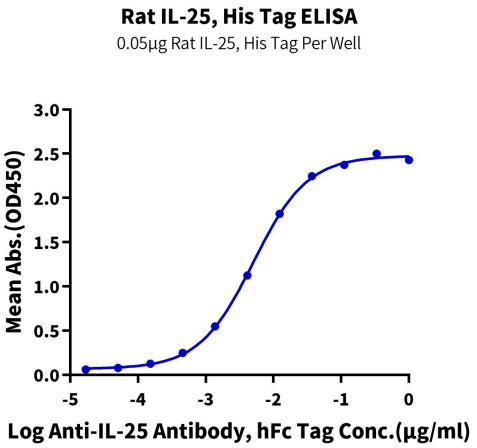
Assay Data

ELISA Data



Immobilized Rat IL-25, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti IL-25 Antibody, hFc Tag with the EC50 of 5.0ng/ml determined by ELISA.