Canine IL-13 Protein

Cat. No. IL1-DM213

Description

Source	Recombinant Canine IL-13 Protein is expressed from HEK293 with hFc tag at the C-terminus.
	It contains Ser19-Arg131.
Accession	Q9N0W9
Molecular Weight	The protein has a predicted MW of 38.38 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>95% as determined by HPLC

Formulation and Storage

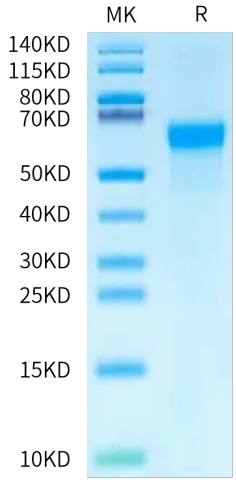
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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-13 (IL-13) is a monomeric 17 kDa immunoregulatory cytokine that plays a key role in the pathogenesis of allergy, cancer, and tissue fibrosis. It is secreted by several helper T cell subsets, NK cells, mast cells, eosinophils, basophils, and visceral smooth muscle cells. Inhibits inflammatory cytokine production. Synergizes with IL2 in regulating interferon-gamma synthesis. May be critical in regulating inflammatory and immune responses. Positively regulates IL31RA expression in macrophages (By similarity).

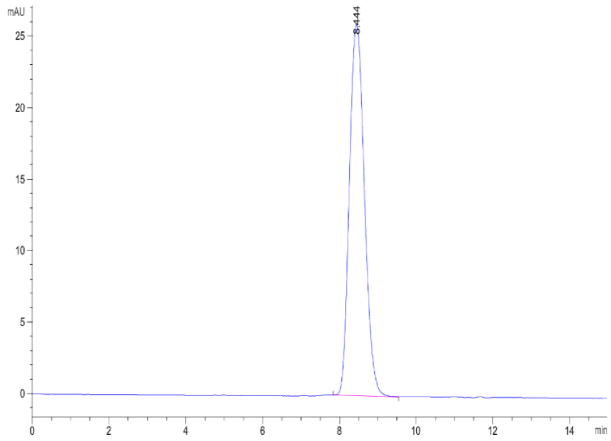
Assay Data

Bis-Tris PAGE



Canine IL-13 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Canine IL-13 is greater than 95% as determined by SEC-HPLC.

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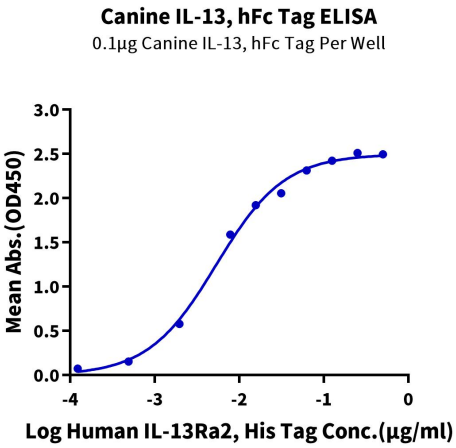
Assay Data

ELISA Data



Immobilized Canine IL-13, hFc Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human IL-13Ra2, His Tag with the EC50 of 5.3ng/ml determined by ELISA (QC Test).