

Canine IL-13 Protein, Ultra Low Endotoxin



Cat. No. IL1-DM113-UL

Description	
Source	Recombinant Canine IL-13 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ser19-Arg131.
Accession	Q9N0W9
Molecular Weight	The protein has a predicted MW of 14.05 kDa. Due to glycosylation, the protein migrates to 30-45 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

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-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

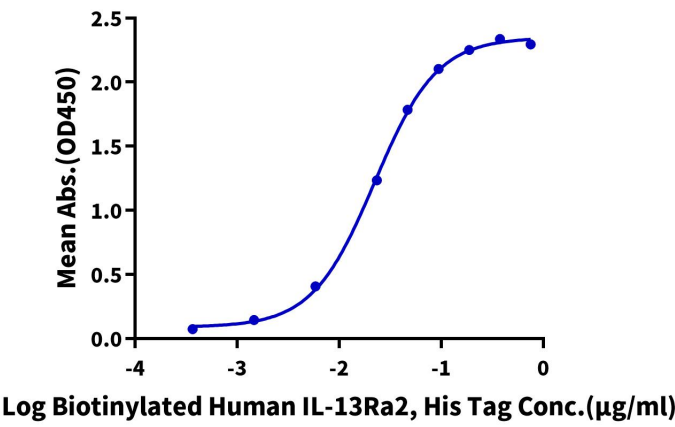


Canine IL-13 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

Canine IL-13, His Tag ELISA
0.1µg Canine IL-13, His Tag Per Well



Immobilized Canine IL-13, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-13Ra2, His Tag with the EC50 of 22.2ng/ml determined by ELISA (QC Test).