

IL-13 Protein, Canine, Recombinant (HEK293, His)

General Information

Protein Construction:	Ser19-Arg131
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	Q9N0W9
Molecular Weight:	14.05 kDa (Predicted); 30-45 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Canine IL-13, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human IL-13Ra2, His Tag with the EC50 of 22.2 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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