

## IL-13 Protein, Canine, Recombinant (hFc)

### General Information

|                       |   |
|-----------------------|---|
| Protein Construction: | Ser19-Arg131  |
| Species:              | Canine  |
| Expression Host:      | HEK293 Cells  |
| Accession:            | Q9N0W9  |
| Molecular Weight:     | 38.38 kDa (Predicted); 55-65 kDa (Reducing condition, due to glycosylation) |

### QC Testing

|                      |  |
|----------------------|--|
| Biological Activity: | Immobilized Canine IL-13, hFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human IL-13Ra2, His Tag with the EC50 of 5.3 ng/ml determined by ELISA (QC Test). |
| Purity:              | > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC  |
| 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).

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