

## Active Recombinant Canine IL5 Protein, His-tagged

Cat. No. IL5-11107C Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Product Overview | Canine IL-5 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 22 - Ser 134 (Accession # Q95J76). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His. The protein is designed as a dimer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Species          | Canine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ProteinLength    | 22-134 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description      | <p>Interleukin 5 (IL5) is an interleukin produced by type-2 T helper cells and mast cells. IL-5 is a 115-amino acid (in human, 133 in the mouse) -long TH2 cytokine that is part of the hematopoietic family. Unlike other members of this cytokine family (namely interleukin 3 and GM-CSF), this glycoprotein in its active form is a homodimer.</p> <p>Interleukin-5 has long been associated with the cause of several allergic diseases including allergic rhinitis and asthma, wherein a large increase in the number of circulating, airway tissue, and induced sputum eosinophils have been observed. Given the high concordance of eosinophils and, in particular, allergic asthma pathology, it has been widely speculated that eosinophils have an important role in the pathology of this disease. Drugs that target IL-5 are mepolizumab and reslizumab.</p> |
| Form             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Bio-activity     | Immobilized Human IL-5 R alpha, Fc Tag at 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                       |                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | µg/mL (100 µL/well) can bind Canine IL-5 Protein, His Tag with a linear range of 0.02-1.25 µg/mL.                                                                                                                                                                                                                            |
| <b>Molecular Mass</b> | The protein has a calculated MW of 15.0 kDa. The protein migrates as 14 kDa and 17-20 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                       |
| <b>Purity</b>         | >90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.                                                                                                                                                                                                                                                              |
| <b>Storage</b>        | This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL5 interleukin 5 (colony-stimulating factor, eosinophil) [ <i>Canis lupus familiaris</i> ]                                                       |
| <b>Official Symbol</b> | IL5                                                                                                                                               |
| <b>Synonyms</b>        | IL5; interleukin 5 (colony-stimulating factor, eosinophil); interleukin-5; TRF; IL-5; T-cell replacing factor; eosinophil differentiation factor; |
| <b>Gene ID</b>         | 403790                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_001006950                                                                                                                                      |

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| Protein Refseq | NP_001006951 |
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| UniProt ID | Q95J76 |
|------------|--------|

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