

## Recombinant Canine IL-13

**Cat. No.** IL13-62C    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Canine IL-13 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Canine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>Interleukin 13 (IL-13) is secreted by many cell types, but especially T helper type 2 (Th2) cells. IL-13 is an important mediator of allergic inflammation and disease. In addition to effects on immune cells, IL-13 is implicated as a central mediator of the physiologic changes induced by allergic inflammation in many tissues. The functions of IL-13 overlap considerably with those of IL-4, especially with regard to changes induced on hematopoietic cells, but these effects are probably less important given the more potent role of IL-4. Thus, although IL-13 can induce immunoglobulin E (IgE) secretion from activated human B cells, deletion of IL-13 from mice does not markedly affect either Th2 cell development or antigen-specific IgE responses induced by potent allergens. In comparison, deletion of IL-4 abrogates these responses. Thus, rather than a lymphoid cytokine, IL-13 acts more prominently as a molecular bridge linking allergic inflammatory cells to the non-immune cells in contact with them, thereby altering physiological function.</p> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 12.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>  | SPSPVTPSPT LKELIEELVN ITQNQASLCN GSMVWSVNLT AGMYCAALES<br>LINVSDCSAI QRTQRMLKAL CSQKPAAGIS SERSRDTKIE VIQLVKNLLT<br>YVRGVYRHGN FR (112) |
| <b>Applications</b> | The Canine IL-13 protein can be used in cell culture, as an IL-13 ELISA Standard,<br>and as a Western Blot Control.                     |
| <b>Storage</b>      | -20 C                                                                                                                                   |

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