

## Recombinant Dog IL31 Protein, His-tagged

Cat. No. IL31-1038D    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Dog IL31 Protein (Gln31-Gln159) with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                 |
| Species          | Dog                                                                                                                                                                                                                                                                                                                                                                |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                             |
| ProteinLength    | Gln31-Gln159                                                                                                                                                                                                                                                                                                                                                       |
| Description      | IL31, which is made principally by activated Th2-type T cells, interacts with a heterodimeric receptor consisting of IL31RA (MIM 609510) and OSMR (MIM 601743) that is constitutively expressed on epithelial cells and keratinocytes. IL31 may be involved in the promotion of allergic skin disorders and in regulating other allergic diseases, such as asthma. |
| Form             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                |
| Molecular Mass   | Predicted Molecular Mass: 18.3 kDa; Accurate Molecular Mass: 15 kDa                                                                                                                                                                                                                                                                                                |
| Purity           | > 80%                                                                                                                                                                                                                                                                                                                                                              |
| Applications     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                         |
| Stability        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is                                                                                                    |

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less than 5% within the expiration date under appropriate storage condition.

**Storage**

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

**Storage Buffer**

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Reconstitution**

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name**

IL31 interleukin 31 [ *Canis lupus familiaris* (dog) ]

**Official Symbol**

IL31

**Synonyms**

IL31; interleukin 31; interleukin-31;

**Gene ID**

100302725

**mRNA Refseq**

NM\_001165914

**Protein Refseq**

NP\_001159386

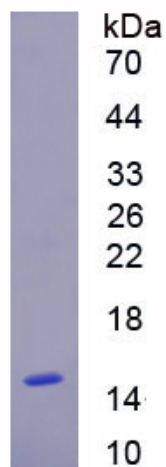
**UniProt ID**

C7G0W1

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