

# Recombinant canine IL-31 protein

Catalog Number: ATGP3570

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

24-159aa

### UniProt No.

C7G0W1

### NCBI Accession No.

NP\_001159386

### Alternative Names

Interleukin-31, IL-31

## PRODUCT SPECIFICATION

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### Molecular Weight

16.1 kDa (142aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

IL31, also known as interleukin 31, is a member of the gp130/interleukin-6 cytokine family that is produced by cell types such as T helper 2 lymphocytes and cutaneous lymphocyte antigen positive skin homing T cells. IL-31 signals via a heterodimeric receptor complex composed of a gp130 related molecule termed IL-31RA (also GPL and GLMR) and an Oncostatin M receptor (OSM R beta). The IL-31 receptor is constitutively expressed by

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keratinocytes and upregulated by IFN gamma on monocytes. Recombinant canine IL31, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

SHMAPTHQLP PSDVRKIILE LQPLSRGLLE DYQKKETGVP ESNRTLILLCL TSDSQPPRLN SSAILPYFRA IRPLSDKNII  
DKIIEQLDKL KFAQHEPETEI SVPADTFECK SFILTILQQF SACLESVFKS LNSGPQ<HHHH HH>

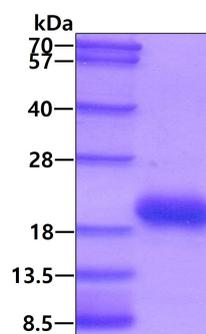
## General References

Mizuno T., et al, (2009) Vet. Immunol. Immunopathol. 131:140-143.

Gonzales AJ., et al, (2013) Vet. Dermatol. 24:48-53.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.