

Recombinant canine IL-31 protein

Catalog Number: ATGP3888

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

24-159aa

UniProt No.

C7G0W1

NCBI Accession No.

NP_001159386.1

Alternative Names

Interleukin-31, IL-31

PRODUCT SPECIFICATION

Molecular Weight

15.3 kDa (136aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Tag

Non-Tagged

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

Description

IL31, also known as interleukin-31, is a cytokine with an anti-parallel four-helix bundle structure in the gp130/IL-6 cytokine family. It shares several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-1. This protein is mainly associated with activated T cells and is preferentially expressed by type 2 helper T cells (Th2). This protein is an inflammatory cytokine that helps trigger cell-mediated immunity against

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pathogens. It has also been identified as a major player in a number of chronic inflammatory diseases, including atopic dermatitis. Recombinant Canine IL31 was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

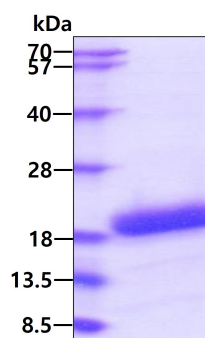
SHMAPTHQLP PSDVRKIILE LQPLSRGLLE DYQKKETGVP ESNRTLILLCL TSDSQPPRLN SSAILPYFRA IRPLSDKNII
DKIIEQLDKL KFAQHEPETEI SVPADTFECK SFILTILQQF SACLESVFKS LNSGPQ

General References

Dillon SR., et al, (2004) Nat. Immunol. 5:752-760.
Diveu C., et al, (2004) Eur. Cytokine Netw. 15:291-302.

DATA

SDS-PAGE



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