

Recombinant canine IL-5 protein

Catalog Number: ATGP3985

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-134aa

UniProt No.

Q95J76

NCBI Accession No.

NP_001006951

Alternative Names

Interleukin-5, Eosinophil differentiation factor, T-cell replacing factor, TRF, EDF

PRODUCT SPECIFICATION

Molecular Weight

13.9kDa (119aa)

Concentration

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

Formulation

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

Purity

> 90% by SDS - PAGE

Endotoxin level

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

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range $\leq$ 15 ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

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

IL-5, also known as interleukin-5, is a member of the hematopoietin receptor superfamily and is comprised of a

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cytokine-specific alpha chain and the common beta chain that is shared among these cytokines for signaling. Through binding to the IL-5 receptor, IL-5 stimulates B cell growth and increases immunoglobulin secretion. It related hematopoietic cytokines that are important for allergic inflammation. It is a lineage-specific cytokine for eosinophilopoiesis and plays an important part in diseases associated with increased eosinophils, such as asthma. Recombinant canine IL-5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

Amino acid Sequence

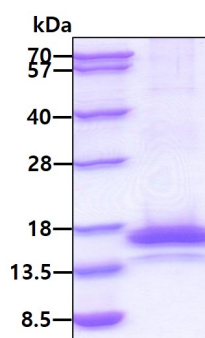
VENPMNRLVA ETLTLLSTHR TWLIGDGNLM IPTPENKNHQ LCIKEVFQGI DTLKNQTAHG EAVDKLFQNL SLIKEHIERQ
KKRCAGERWR VTKFLDYLVQ FLGVINTEWT PES<HHHHHH>

General References

Martinez-Moczygemba M., et al. (2003) J Allergy Clin Immunol. 112:653-665.
Milburn MV., et al. (1993) Nature. 363:172-176.

DATA

SDS-PAGE



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

Biological Activity

Canine IL-5 in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 range ≤ 15 ng/ml.

