

Recombinant feline IL-2 (C146S) protein

Catalog Number: ATGP3611

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-154aa

UniProt No.

Q07885

NCBI Accession No.

NP_001036802

Alternative Names

Interleukin-2, IL-2, T-cell growth factor, TCGF

PRODUCT SPECIFICATION

Molecular Weight

17.8 kDa (157aa) Confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Biological Activity

Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 range ≤ 0.3 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

IL2, also known as interleukin2, is an immunoregulatory lymphokine produced by T-cell in response to antigenic

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or mitogenic stimulation IL2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated kill cells, monocytes, macrophages and oligodendrocytes. Recombinant feline IL2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>APASSST KETQQLEQL LLDLRLLLNG VNNPENPKLS RMLTFKFYVP
KKATELTHLQ CLVEELKPLE EVLYLAQSKN FHLNHIKELM SNINVTVLKL KGSETRFTCN YDDETATIVE FLNKWITFCQ
SIFSTLT

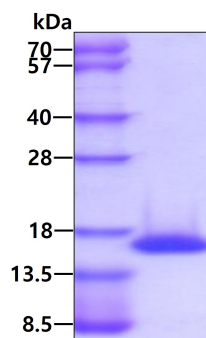
General References

Taniguchi T., et al. (1983). Nature. 302(5906): 305-10

Nedoszytko B., et al. (2016) Postepy Dermatol Alergol. 33(6): 429-434

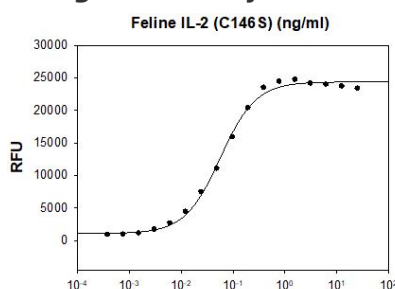
DATA

SDS-PAGE



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

Biological Activity



Feline IL-2 (C146S) stimulates cell proliferation of the CTLL2 mouse cytotoxic T cells. The ED50 range \leq 0.3 ng/ml.