

For Research Use Only

Recombinant Canine IL-2 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg4556

Basic Information

Species:
Canine

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ µg protein, LAL method

Source:
HEK293-derived Canine IL-2 protein Ala21-Thr155 (Accession# Q29416) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
403989

Accession:
Q29416

Predicted Molecular Mass:
42.7 kDa

SDS-PAGE:
42-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Interleukin-2 (IL-2) is a protein originally identified as a T-cell growth factor. IL2 is mainly produced by activated CD4+CD25- (helper) T cells and induces the proliferation of these and other cells such as CD8+ T cells, B and NK cells. For this reason, it has been used to treat immune deficiencies such as HIV and to induce immune responses against tumours. However, IL-2 has also been shown to be a major growth factor for CD4+CD25+ regulatory T cells. Interleukin 2 mediates its functions in the target cell through the interleukin 2 receptor (IL2R).

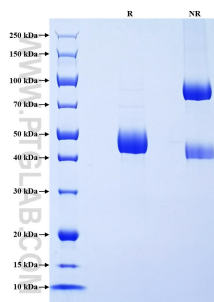
References

1. Boyman O. et al. (2012) Nat Rev Immunol. 12(3):180-90.
2. Raeber ME. et al. (2023) EBioMedicine. 90:104539.
3. Malek TR. (2008) Annu Rev Immunol. 26:453-79.

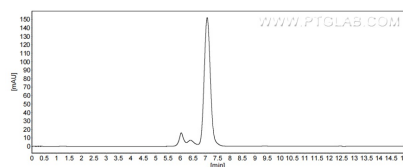
Synonyms

IL2, Interleukin-2

Selected Validation Data



Purity of Recombinant Canine IL-2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Canine IL-2 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

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