

For Research Use Only

Recombinant Canine IL-6 protein (rFc Tag)



Catalog Number: Eg4554

Basic Information

Species:
Canine

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Canine IL-6 protein Phe21-Met207 (Accession# P41323) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

403985

Accession:

P41323

Predicted Molecular Mass:

48.1 kDa

SDS-PAGE:

48-60 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-6 (IL-6) is an interleukin that acts as both a pro- and anti-inflammatory cytokine. IL-6 protein is secreted by a variety of cell types, including T cells and macrophages, as a phosphorylated and variably glycosylated molecule. IL-6 plays an essential role in the terminal differentiation of B cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces the growth of myeloma and plasmacytoma and the differentiation of neurons and acts on B cells, T cells, hepatocytes, haematopoietic progenitor cells and cells of the CNS. IL-6 is also considered a myokine, a cytokine produced by muscle that is increased in response to muscle contraction. IL-6 has been shown to interact with the interleukin-6 receptor and glycoprotein 130. In addition, IL-6 has been implicated in haematopoiesis, bone metabolism and cancer progression, and has been defined as essential in directing the transition from innate to acquired immunity.

References

1. Aliyu M. et al. (2022) Int Immunopharmacol. 111:109130.
2. Grębenciucova E. et al. (2023) Front Immunol. 14:1255533.
3. Tanaka T. et al. (2016) Adv Exp Med Biol. 941:79-88.

Synonyms

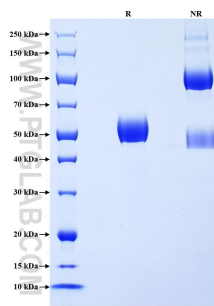
IL6, Interleukin-6

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

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Selected Validation Data



Purity of Recombinant Canine IL-6 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.