

Catalog Number: Eg4868

Basic Information**Species:**
Pig**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 Pig IL-10 protein Ser19-Asn175 (Accession# P05109) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

397106

Accession:

Q29055

Predicted Molecular Mass:

45.3 kDa

SDS-PAGE:

44-52 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 (IL)-10 is an anti-inflammatory cytokine, produced by T helper (Th) cells, macrophages, monocytes, and B cells, that plays a crucial role in preventing inflammatory and autoimmune pathologies. It downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL10 can block NF-κB activity, and is involved in the regulation of the JAK-STAT signaling pathway. IL10, along with its receptors, describes an important role in pathogenesis of various diseases, including infectious, inflammatory, autoimmune diseases. IL10 mutations are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.

References

1. Dinarello CA. et al. (1996). Blood. 87: 2095-147.
2. Bird S. et al. (2002). Cytokine Growth Factor Rev. 13: 483-502.
3. Xu J. et al. (2013). PLoS One. 21;8(5):e63654.
4. McCarty S. (2014). Cardiol Rev. 22: 176-81.

Synonyms

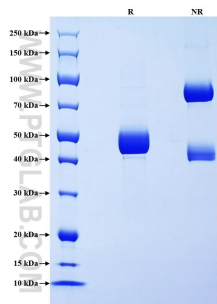
IL10, Interleukin-10

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

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Selected Validation Data



Purity of Recombinant Pig IL-10 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.