

Catalog Number: Eg4865

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-6 protein Glu30-Met212 (Accession# P26893) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

399500

Accession:

P26893

Predicted Molecular Mass:

48.2 kDa

SDS-PAGE:

48-55 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 (IL6) is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. IL6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. IL6 Plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. IL6 is also considered a myokine, a cytokine produced from muscle, and is elevated in response to muscle contraction. IL6 has been shown to interact with interleukin-6 receptor and glycoprotein 130. Additionally, IL6 is involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

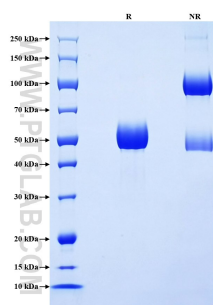
References

1. Scheller J. et al. (1988). Behring Inst Mitt. Behring Inst Mitt. (83):40-7.
2. Heinrich PC. et al. (2003). Biochem J. 374: 1-20.
3. Rose-John S. et al. (2007). Expert Opin Ther Targets. 11: 613-24.
4. Ming JE. et al. (1989). J Mol Cell Immunol. 4: 203-11.
5. Febbraio MA. et al. (2005). Exerc Sport Sci Rev. 33:114-9.
6. J Appl Physiol. et al. (2005). J Appl Physiol. 98:1154-62.

Synonyms

IL6, Interleukin-6

Selected Validation Data



Purity of Recombinant Pig 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.

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

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