

Catalog Number: Eg4865

**Basic Information****Species:**  
Pig**Purity:**  
>90 %, SDS-PAGE**Tag:**  
rFc Tag**Technical Specifications****Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;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**

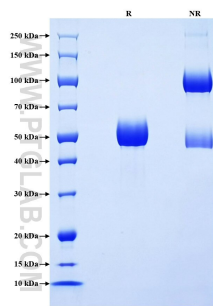
IL6, Interleukin-6

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

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## 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.