

For Research Use Only

Recombinant Pig IL-4 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg4866

Basic Information

Species:
Pig

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 Pig IL-4 protein His25-Cys133 (Accession# Q04745) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
397225

Accession:
Q04745

Predicted Molecular Mass:
38.8 kDa

SDS-PAGE:
42-52 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-4 (il-4), a member of the α-helical cytokine family, is produced by activated CD4+ T cells, basophils, and mast cells. It promotes the proliferation and differentiation of antigen presenting cells. IL4 also plays a pivotal role in antibody isotype switching and stimulates the production of IgE. This cytokine has been applied in the treatment of autoimmune disorder like multiple myeloma, cancer, psoriasis, and arthritis. IL4 has also been extensively applied to inhibit detrimental effect of Th1. It may promote the growth of epithelial tumors by mediating increased proliferation and survival.

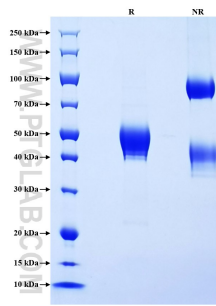
References

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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.
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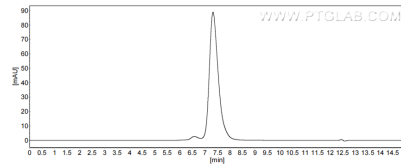
Synonyms

B-cell stimulatory factor 1, IL4, Interleukin-4

Selected Validation Data



Purity of Recombinant Pig IL-4 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 Pig IL-4 was greater than 90% as determined by SEC-HPLC.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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