

For Research Use Only

Recombinant Mouse IL-4 protein (rFc Tag)



Catalog Number: Eg3750

Basic Information

ED50:
/

GeneID:
16189

Species:
Mouse

Accession:
P07750

Purity:
>90 %, SDS-PAGE

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse IL-4 protein His21-Ser140 (Accession# P07750) with a rabbit IgG Fc tag at the C-terminus.

Predicted Molecular Mass:
42.8 kDa

SDS-PAGE:
40-55 kDa, reducing (R) condition

Formulation:
Lyophilized from sterile 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. IL-4 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. IL-4 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.

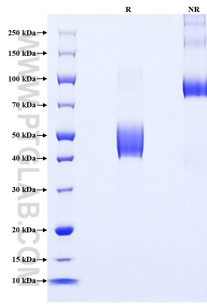
References

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

IL-4, IL4, IL4, interleukin 4

Selected Validation Data



Purity of Recombinant Mouse 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.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.