Catalog # ILR-C5258

Synonym

IL4R,CD124,IL4RA

Source

Cynomolgus / Rhesus macaque IL-4 R alpha, Fc Tag (ILR-C5258) is expressed from human 293 cells (HEK293). It contains AA Met 26 - Arg 232 (Accession # <u>G7Q0S7</u>). In the region Met 26 - Arg 232, the AA sequence of Cynomolgus and Rhesus macaque IL-4 R alpha are homologus.

Predicted N-terminus: Met 26

Molecular Characterization

IL-4 R alpha(Met 26 - Arg 232) Fc(Pro 100 - Lys 330) G7Q0S7 P01857

This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 50.4 kDa. The protein migrates as 60-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

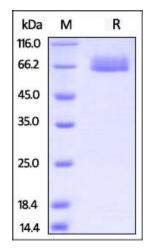
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Cynomolgus / Rhesus macaque IL-4 R alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

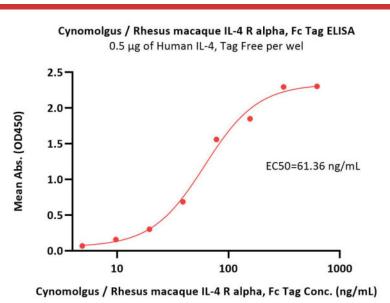


6/20/2023

Cynomolgus / Rhesus macaque IL-4 R alpha / CD124 Protein, Fc Tag



Catalog # ILR-C5258



Immobilized Human IL-4, premium grade (Cat. No. IL4-H4218) at 5 μ g/mL (100 μ L/well) can bind Cynomolgus / Rhesus macaque IL-4 R alpha, Fc Tag (Cat. No. ILR-C5258) with a linear range of 10-78 ng/mL (QC tested).

Background

IL-4 is a pleiotropic cytokine produced by activated Th2 cells and mast cells, and plays a pivotal role in immune responses. The effects of IL-4 are mediated after binding to high affinity receptor complexes present on hematopoietic as well as non-hematopoietic cells. Hematopoietic cellular responses to IL-4 are mediated by a high affinity receptor complex comprised of the 140 kDa IL4R α (CD124)subunit and the 70 kDa common cytokine γ c chain (CD132). Interleukin 4 Receptor (IL4R) also known as CD124, IL4R α and BSF receptor, is a type I cytokine receptor produced by activated Th2 cells and mast cells, and plays an important role in Th2-biased immune responses, alternative macrophage activation, mucosal immunity, allergic inflammation, tumor progression, and atherogenesis. A soluble form of the encoded IL4R protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. IL4R can alternatively associate with IL-13Ra1 to form the type II receptor which is responsive to both IL4 and IL13. Interleukin-4 receptor has been shown to interact with SHC1.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.



