

Synonym

IL4R,CD124,IL4RA

Source

Human IL-4 R alpha, Fc Tag (ILR-H5253) is expressed from human 293 cells (HEK293). It contains AA Met 26 - His 232 (Accession # P24394-1).

Predicted N-terminus: Met 26

Molecular Characterization

IL-4 R alpha(Met 26 - His 232) P24394-1	Fc(Pro 100 - Lys 330) P01857
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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 60-80 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. Normally trehalose is added as protectant before lyophilization.

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.

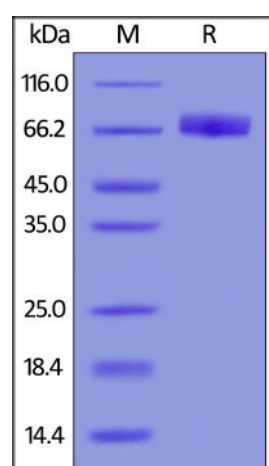
Storage

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

Please avoid repeated freeze-thaw cycles.

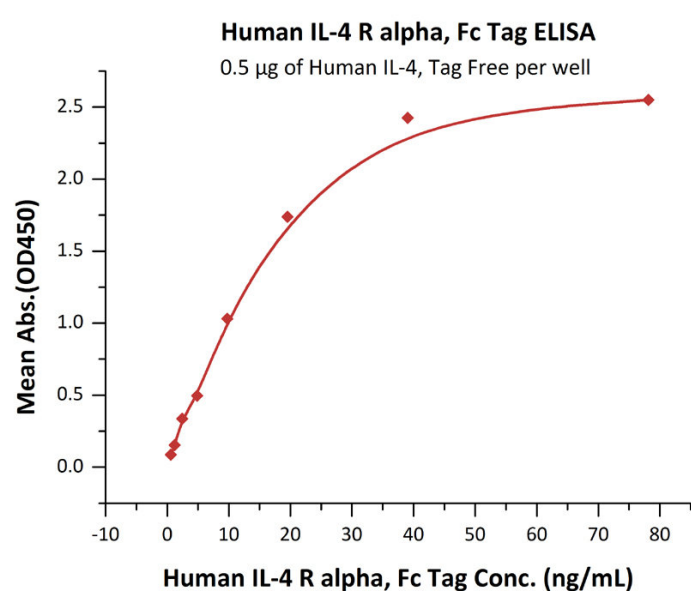
This product is stable after storage at:

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

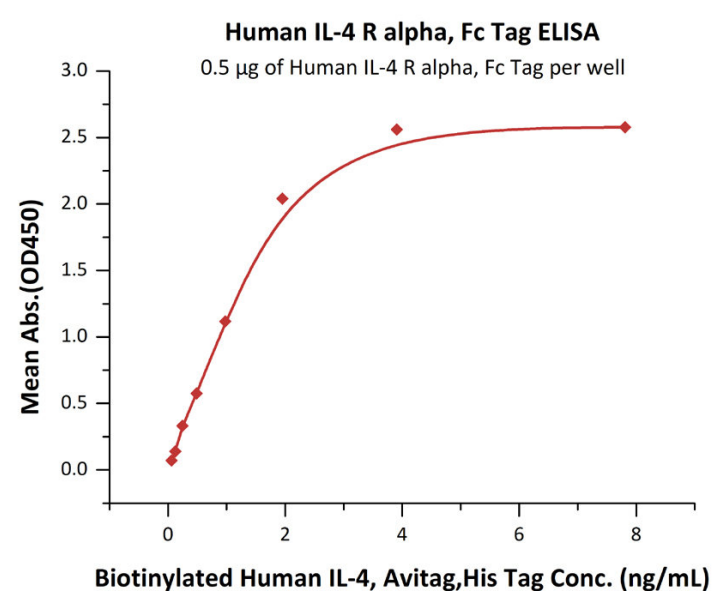
SDS-PAGE

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

Bioactivity-ELISA



Immobilized Human IL-4, Tag Free (Cat. No. [IL4-H4218](#)) at 5 µg/mL (100 µL/well) can bind Human IL-4 R alpha, Fc Tag (Cat. No. [ILR-H5253](#)) with a linear range of 1-20 ng/mL (QC tested).



Immobilized Human IL-4 R alpha, Fc Tag (Cat. No. [ILR-H5253](#)) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-4, Avitag, His Tag (Cat. No. [IL4-H82E0](#)) with a linear range of 0.1-2 ng/mL (Routinely tested).

Background

IL-4 R alpha is also known as IL4R, CD124, IL-4RA. This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE antibody production in B cells. Allelic variations in this gene have been associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitis, asthma, or eczema. The binding of IL-4 or IL-13 to the IL-4 receptor on the surface of macrophages results in the alternative activation of those macrophages. Interleukin-4 receptor has been shown to interact with SHC1.

References

- (1) [Tundup S., 2012, Ann. N. Y. Acad. Sci., 1253: E1-E13.](#)
- (2) [Ikizawa K., Yanagihara Y., 2000, Biochem. Biophys. Res. Commun., 268 \(1\): 54-9.](#)
- (3) [Kashiwada M., 2001, J. Immunol., 167 \(11\): 6382-7.](#)

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