

IL-3R alpha/CD123 Protein, Human, Recombinant (aa 19-305, His & Avi), Biotinylated

General Information

Synonyms:	IL3RAY;IL-3R subunit alpha;IL-3 R α ;IL-3 R alpha;IL3RA;IL-3 R α /CD123;IL-3Ra;IL3RX;IL3RY;IL3R;MGC34174;CD123;IL-3R subunit α
Protein Construction:	Thr19-Arg305
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P26951-1
Molecular Weight:	35.99 kDa (predicted). Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Anti-IL-3 R alpha Antibody, hFc Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human IL-3 R alpha, His Tag with the EC50 of 9.9ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-3 receptor subunit alpha, also known as IL-3 receptor subunit alpha, IL-3R-alpha, CD123, and IL3RA, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 5 subfamily. The specific alpha subunit of the interleukin-3 receptor (IL-3Ralpha, CD123) is strongly expressed in various

leukemic blasts and leukemic stem cells and seems to be an excellent target for the therapy of leukemias.

Reference

Ugo Testa, et al. CD 123 is a membrane biomarker and a therapeutic target in hematologic malignancies. *Biomark Res.* 2014; 2: 4

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