

IL-5R alpha/CD125 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	CD125;IL5RA;IL5R;IL-5 R alpha;MGC26560;IL-5Ra;HSIL5R3;IL-5 R α ;CDw125CD125;IL-5 R α /CD125;IL-5R subunit alpha;IL-5R subunit α
Protein Construction:	Asp21-Glu335
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q01344-1
Molecular Weight:	38.7 kDa (predicted). Due to glycosylation, the protein migrates to 50-68 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human IL-5, His Tag immobilized on CM5 Chip can bind Human IL-5 R alpha, His Tag with an affinity constant of 4.9nM as determined in a SPR assay.
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-5 Receptor alpha (IL-5 R alpha), also known as CD125, is a 60 kDa hematopoietin receptor that plays a dominant role in eosinophil biology. This is the receptor for interleukin-5. The alpha chain binds to IL5.

Reference

Garcia G, et al. Anti-interleukin-5 therapy in severe asthma[J]. European Respiratory Review, 2013, 22(129):251-257.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481