

IL-5 Protein, Human, Recombinant (His & Avi)

General Information

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| Synonyms: | Interleukin-5;TRF;IL-5;T-cell replacing factor;EDF |
| Protein Construction: | Ile20-Ser134 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P05113 |
| Molecular Weight: | 16.1 kDa (predicted). Due to glycosylation, the protein migrates to 18-25 kDa based on Tris-Bis PAGE result. |

QC Testing

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| Biological Activity: | <ol style="list-style-type: none">1. Immobilized Human IL-5, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 6.9ng/ml determined by ELISA (QC Test).2. Human IL-5, His Tag immobilized on CM5 Chip can bind Human IL-5Ra, 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/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 µm 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 µg/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

IL-5 is an important cytokine for priming and survival of mature eosinophils and for proliferation and maturation of their progenitors. IL-5(Rα) targeting will be increasingly used in diseases where eosinophils are the key immune

effector cells such as eosinophilic asthma (EA), hypereosinophilic syndrome (HES), eosinophilic esophagitis (EE), and eosinophilic granulomatosis with polyangiitis (EGPA).

Reference

Hassani M, Koenderman L. Immunological and hematological effects of IL-5(R α)-targeted therapy: An overview. *Allergy*. 2018 Oct;73(10):1979-1988. doi: 10.1111/all.1345Epub 2018 Oct 8. PMID: 29611207; PMCID: PMC6220846.

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