

IL-5 Protein, Mouse, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	T-cell replacing factor;IL-5;Interleukin-5;EDF;TRF
Protein Construction:	Met21-Gly133
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P04401
Molecular Weight:	16.0 kDa (predicted). Due to glycosylation, the protein migrates to 16 kDa and 20-35 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Mouse IL-5 R alpha, His Tag immobilized on CM5 Chip can bind Biotinylated Mouse IL-5, His-Avi Tag with an affinity constant of 0.511 μ M as determined in 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:	Supplied as 0.22 μ m filtered solution in 20 mM Tris, 500 mM NaCl, 10% Glycerol (pH 7.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue 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(R α) 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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