

Recombinant Rat IL-5 Protein

Catalog No.: RP01849 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	24497	Q08125

Tags

C-His

Synonyms

Interleukin-5; IL-5; B-cell growth factor II; BCGF-II; Cytotoxic T-lymphocyte inducer; Eosinophil differentiation factor; T-cell replacing factor; TRF \square II5; IL-5

Product Information

Source	Purification
HEK293 cells	

Endotoxin

<0.1EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Interleukin-5 (IL-5), which is produced primarily by type 2 T helper lymphocytes (Th2), is an eosinophil differentiation and activation factor. Antagonism of IL-5 activity is being explored as a potential treatment of a number of disease conditions associated with eosinophils in animal models. Interleukin-5 (IL-5) which was previously named T cell replacing factor, B cell growth and differentiation factor, colony forming unit growth stimulating factor and eosinophil differentiation factor is produced predominantly by T cells.

Basic Information

Description

Recombinant Rat IL-5 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met20-Val132) of Rat IL-5 (Accession #NP_068606.1) fused with a His tag at the C-terminus.

Bio-Activity

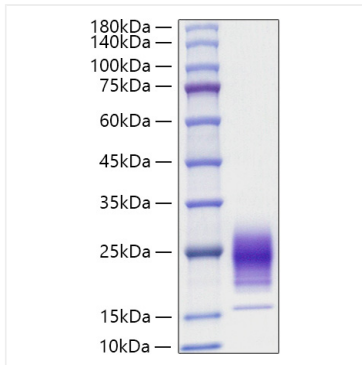
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

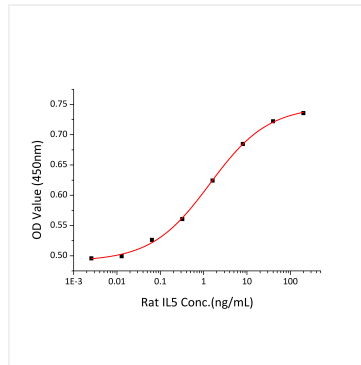
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat IL-5 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-30kDa.



Recombinant Rat IL-5 stimulates cell proliferation assay using TF-1 Human erythroleukemic cells. The ED_{50} for this effect is 0.695-2.78 ng/mL, corresponding to a specific activity of $3.60 \times 10^5 \sim 1.44 \times 10^6$ units/mg.