

Recombinant Mouse IL-5 Protein

Catalog No.: RP01670 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16191	P04401

Tags

C-6His

Synonyms

IL-5 \square IL5

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
13.97 kDa	18-25 kDa

Endotoxin

<0.1EU/ μ g

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) is a member of the interleukin family with a length of 115 amino acids. Interleukins are a group of cytokines (secreted proteins/signaling molecules) that were first seen to be expressed by white blood cells (leukocytes) and has been found in a wide variety of body cells. Interleukin 5 or IL-5 is produced by T helper-2 cells and mast cells. It helps to stimulate B cell growth and increase immunoglobulin secretion and is considered a key mediator in eosinophil activation. Interleukin 5 (IL-5) has long been associated with several allergic diseases, including allergic rhinitis and asthma. Growth in the number of circulating, airway tissue, and induced sputum eosinophils have been observed in patients with these diseases. IL-5 also had something with the terminally differentiated granulocyte eosinophils. IL-5 was originally found as an eosinophil colony-stimulating factor. It has been proved to be a major regulator of eosinophil accumulation in tissues and can modulate eosinophil behavior at every stage from maturation to survival.

Basic Information

Description

Recombinant Mouse IL-5 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met21-Gly133) of mouse IL-5 (Accession #NP_034688.1) fused with and a 6 \times His tag at the C-terminus.

Bio-Activity

Measured in a cell proliferation assay using TF-1 Mouse erythroleukemic cells. The ED₅₀ for this effect is 0.12-0.49ng/mL.

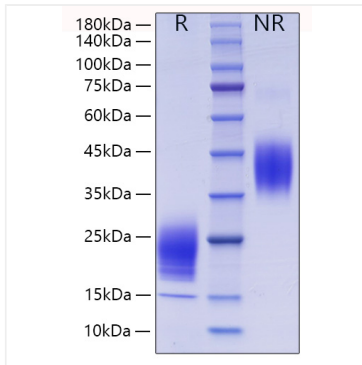
Storage

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

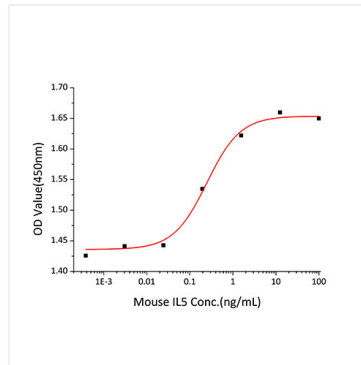
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse IL-5 Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions, showing single bands at 18-25 kDa and 36-50 kDa, respectively.



Recombinant Mouse IL-5 stimulates cell proliferation of the TF-1 Mouse erythroleukemic cells. The ED₅₀ for this effect is 0.12-0.49ng/mL.