

Recombinant Mouse IL-5 Protein

Catalog No.: RP01670

Sequence Information

Species **Gene ID**
Mouse 16191

Swiss Prot **Tags**
P04401 C-6His

Synonyms
IL-5; IL5

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
13.97 kDa 18-25 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm 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.

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×His tag at the C-terminus.

Activity

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

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

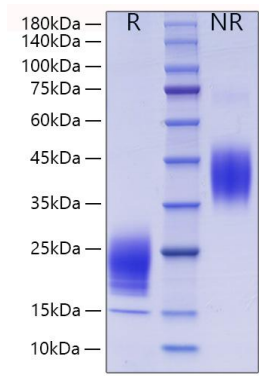
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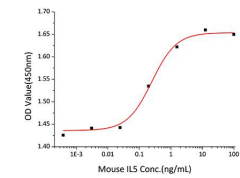
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Validation Data



Recombinant Mouse IL-5 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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.