

Recombinant Rat IL-5 Protein

Catalog No.: RP01849

Sequence Information

Species **Gene ID**
Rat 24497

Swiss Prot **Tags**
Q08125 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, IL5, IL-5

Product Information

Source **Purification**
HEK293 cells ≥ 85% as determined by SDS-PAGE.

Calculated MW **Observed MW**
13.91 kDa 20-30 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), 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.

Activity

Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.695-2.78 ng/mL, corresponding to a specific activity of 3.60×10⁵~1.44×10⁶ units/mg.

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.

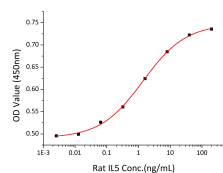
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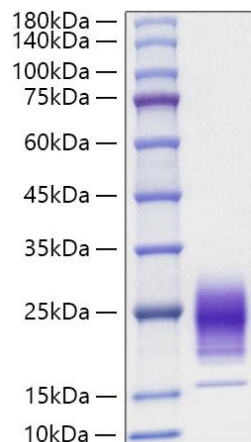
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Validation Data



Recombinant Rat IL-5 stimulates cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ 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.



Recombinant Rat IL-5 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.