

Recombinant Mouse IL-34 Protein

Catalog No.: RP03533 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	76527	Q8R1R4

Tags

C-His

Synonyms

Il34; Interleukin-34; IL-34

Product Information

Source	Purification
HEK293 Cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
26 kDa	35-45 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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.

Contact

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Background

IL-34 is a cytokine that promotes the differentiation and viability of monocytes and macrophages through the colony-stimulating factor-1 receptor (CSF1R). IL-34 protein is expressed in various tissues, including heart, brain, lung, liver, kidney, spleen, thymus, testes, ovary, small intestine, prostate, and colon, and most abundant in the spleen. The colony-stimulating factor 1 receptor (CSF-1R) is identified as the receptor for IL-34.

Basic Information

Description

Recombinant Mouse IL-34 Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Met 1-Pro 235) of Mouse IL-34 (Accession # NP_001128572.1) fused with His tag at the C-terminus.

Bio-Activity

1. Immobilized Recombinant Rat CSF1R / MCSF Receptor / CD115 Protein (Fc Tag) at 2 μg/ml (100 μl/well) can bind Recombinant Mouse IL-34 Protein (His Tag), the EC50 is 1.5-4.5 ng/mL. 2. Measured in a cell proliferation assay using M-NFS-60 mouse myeloid cells. The ED50 for this effect is typically 50-200 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

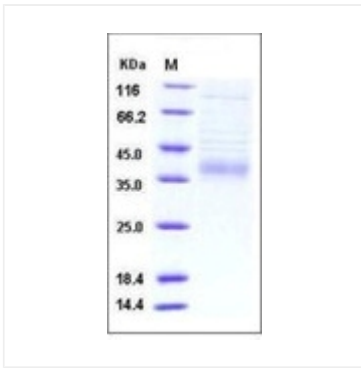
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

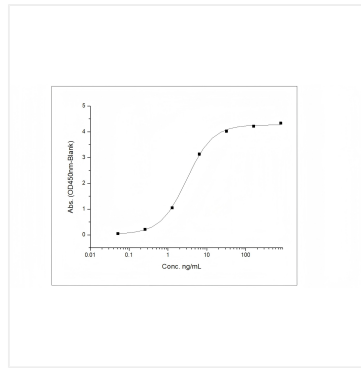
Operational Notes

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

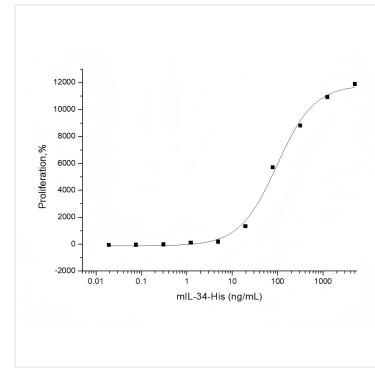
Validation Data



Recombinant Mouse IL-34 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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