Recombinant Mouse IL-34 Protein

Catalog No.: RP03533

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Sequence Information

Species
Mouse

Gene ID
76527

Swiss Prot
Q8R1R4

Tags
C-His

Synonyms
Il34, Interleukin-34, IL-34

Product Information

Source
HEK293 Cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
26 kDa

Observed MW
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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
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℃

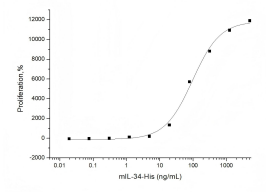
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Please visit http://abclonal.com for a complete listing of recommended products.

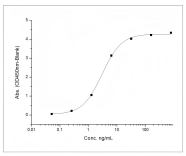
Validation Data



Measured in a cell proliferation assay using M-NFS-60 mouse myeloid cells. The ED50 for this effect is typically 50-200 ng/mL.



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



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.

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