

Mouse IL-34 Protein (His Tag)

Catalog Number: 50055-M08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

2010004A03Rik, AI593503

Protein Construction:

A DNA sequence encoding the extracellular domain (Met 1-Pro 235) of mouse mIL34 (NP_001128572.1) precursor was expressed with a polyhistidine tag at the C-terminus.

Source: Mouse

Expression Host: Human Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Bio-Activity

1. Measured by its ability to bind biotinylated recombinant mouse CSF1R in a functional ELISA.
2. Measured in a cell proliferation assay using M-NFS60 mouse myeloid cells. The ED50 for this effect is typically 10-50 ng/mL.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asn 21

Molecular Mass:

The secreted recombinant mouse mIL34 consists of 226 amino acids and has a predicted molecular mass of 26 kDa. Due to glycosylation, mIL34 migrates as several bands with the MW of approximately 38 kDa or higher in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

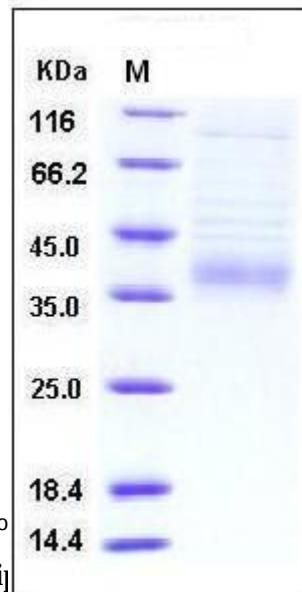
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution

products.

Protein Description

Interleukin 34 (IL-34), also known as CSF-1, is a secreted protein C16 or f77 homolog, is a secreted cytokine family. IL-34 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. IL-34, like CSF-1, the other ligand for CSF-1R, stimulated phosphorylation of extracellular signal-regulated kinase-1 and -2 (ERK1/2) in human monocytes. In addition, IL-34 promoted the formation of the colony-forming unit-macrophage (CFU-M), a macrophage progenitor, in human bone marrow cultures. Mouse IL-34 is synthesized as a 235 amino acid (aa) precursor with a 20 aa signal sequence and a 215 aa mature chain containing two potential site for N-linked glycosylation. Three isoforms for mouse IL-34 have been isolated, and isoform 1 is the recombinant mouse IL-34 described herein.

References

1. Lin, H. et al., 2008, Science. 320 (5877): 807-811 .

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