

Active Recombinant Mouse Il34 Protein, His-Tagged

Cat. No. Il34-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Il34 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin-34 (IL-34) is a protein that promotes the proliferation, survival and differentiation of monocytes and macrophages. It also promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. IL-34 plays an important role in the regulation of osteoclast proliferation and differentiation, and in the regulation of bone resorption. Signaling via CSF1R and its downstream effectors stimulates phosphorylation of MAPK1/ERK2 AND MAPK3/ERK1.
Form	Lyophilized powder
AA Sequence	MNENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINYRIAVPYEGVLRVAN ITRLQKAHVSERELRYLWVLVSLNATESVMDVLE GHPSWKYLQEVQTLLENVQRSLMDVEIGPHVEAVLSLLSTPGLSLKLVRPKALLDNC FRVMELLYCSCCKQSPILKWQDCELPRLHPHSPG SLMQCTATNVYPLSRQTPTSLPGSPSSSHGSLP with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.

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Bio-activity	Measure by its ability to induce proliferation in NFS-60 cells. The ED50 for this effect is <30 ng/mL. The specific activity of recombinant mouse IL-34 is > 3.3 x 10 ⁴ IU/mg.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	IL34 interleukin 34 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL34
Synonyms	2010004A03Rik
Gene ID	76527
mRNA Refseq	NM_001135100.2
Protein Refseq	NP_001128572.1
UniProt ID	Q8R1R4

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