

Active Recombinant Mouse Il34 Protein, His-tagged

Cat. No. Il34-3522M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse interleukin 34 (Il34), transcript variant 1 with a C-His tag was expressed in CHO.
Species	Mouse
Source	CHO
ProteinLength	Met1- Pro235
Description	Cytokine that promotes the proliferation, survival and differentiation of monocytes and macrophages. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. 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.
Bio-activity	The ED50 is 20 - 30 ng/mL, corresponding to a specific activity of $3.3 - 5 \times 10^4$ units/mg, determined by M-NFS-60 cell proliferation induction in a dose dependent manner.
Molecular Mass	26 kDa
Endotoxin	Less than 0.01 ng/μg protein as determined by the LAL method
Purity	> 98%, as determined by Coomassie stained SDS-PAGE.

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Stability	Unopened vial can be stored between 2 and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Concentration	Protein formulated and vialled at >50 µg/mL in specified buffer
Storage Buffer	10 mM NaH ₂ PO ₄ , 0.5 M NaCl, pH 7.4

GENE INFORMATION

Gene Name	IL34 interleukin 34 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL34
Synonyms	IL34; interleukin 34; interleukin-34; IL-34; AI593503; 2010004A03Rik
Gene ID	76527
mRNA Refseq	NM_001135100
Protein Refseq	NP_001128572
UniProt ID	Q8R1R4

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