



Recombinant Human IL-34

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-116S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	146433
Synonyms:	IL34; IL-34; C16orf77

IL-34 is a homodimeric cytokine that is expressed in a range of tissues including spleen, heart, brain, liver, kidney, lung, ovary, thymus, testis, small intestine, prostate and colon. IL-34 is a ligand for colony-stimulating factor-1 receptor (CSF1R), which also binds to CSF-1. It specifically binds CD14+ monocytes, promotes survival and proliferation of human peripheral blood monocytes, and stimulates macrophage colony formation by human bone marrow cells. IL-34, like human CSF-1 stimulates phosphorylation of MAPK1/ERK2 and MAPK3/ERK1. Recombinant human IL-34 is a 52.5 kDa homodimeric glycoprotein consisting of 460 amino acid residues, including a C-terminal His-Tag.

Sequence

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NEPLEMWPLT QNEECTVTGF LRDKLQYRSR LQYMKHYFPI  
NYKISVPYEG VFRIANVTRL QRAQVSEREL RYLWVLSLS  
ATESVQDVLL EGHPSWKYLQ EVETLLLNQV QGLTDVEVSP  
KVESVLSLLN APGPNLKLVR PKALLDNCFR VMELLYCSCC  
KQSSVLNWQD CEVPSPOQSCS PEPSLQYAAT QLYPPPPWSP  
SSPPHSTGSV RVPRAQGEGL LPHHHHHHHH
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Database References

Protein RefSeq:	NP_689669.2
Uniprot ID:	Q6ZMJ4
mRNA RefSeq:	NM_152456.2

Product Specifications

Expressed in	HEK 293 cells
Purity	> 95% by SDS-PAGE & HPLC analyses
Tag	His-tag
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	460
MW:	52.5 kDa

Biological Activity: Measured by its ability to induce secretion of MCP-1 from PBMCs.



AVOID REPEATED FREEZE AND THAW CYCLES!