

Active Recombinant Human Interleukin 34, His-tagged

Cat. No. IL34-652H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL34 protein was expressed in Murine myeloma cell line. Asn21-Pro242, with a C-terminal 6-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	21-242 a.a.
Description	IL34 is secreted as a homodimer consisting of 39 kDa monomers. It belongs to no known cytokine family. Human IL34 is synthesized as a 242 amino acid (aa) precursor that contains a 20 aa signal sequence and a 222aa mature chain. The mature chain contains one potential site of N-linked glycosylation. Human IL34 is 71% identical to mouse IL34 on the amino acid level. IL34 is expressed in various tissues, including the heart, brain, liver, kidney, spleen, thymus, testes, ovary, small intestine, prostate, and colon, and is most abundant in the spleen.
Form	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl with BSA as a carrier protein.
N-terminal Sequence	Asn21
Molecular Weight	26.1 kDa
Activity	Measured in a cell proliferation assay using human peripheral blood monocytes. The

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	ED 50 for this effect is typically 0.75-3.75 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	35-38 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	IL34 interleukin 34 [Homosapiens]
Official Symbol	IL34
Synonyms	IL34; interleukin 34; IL-34; C16orf77; interleukin-34; chromosome 16 open reading frame 77; MGC34647
Gene ID	146433
mRNA Refseq	NM_001172771
Protein Refseq	NP_001166242
MIM	612081

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UniProt ID	Q6ZMJ4
Chromosome Location	16q22.1
Function	cytokine activity;growth factor activity; macrophage colony-stimulating factor receptor binding

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