

## Animal-Free IL-34 Protein, Human (His)

Cat. No.:	HY-P700125AF
Synonyms:	IL34; C16orf77; IL-34; Interleukin-34; MGC34647
Species:	Human
Source:	E. coli
Accession:	Q6ZMJ4 (N21-P242)
Gene ID:	146433
Molecular Weight:	Approximately 26.17 kDa

### PROPERTIES

AA Sequence	M N E P L E M W P L      T Q N E E C T V T G      F L R D K L Q Y R S      R L Q Y M K H Y F P I N Y K I S V P Y E      G V F R I A N V T R      L Q R A Q V S E R E      L R Y L W V L V S L S A T E S V Q D V L      L E G H P S W K Y L      Q E V E T L L L N V      Q Q G L T D V E V S P K V E S V L S L L      N A P G P N L K L V      R P K A L L D N C F      R V M E L L Y C S C C K Q S S V L N W Q      D C E V P S P Q S C      S P E P S L Q Y A A      T Q L Y P P P P W S P S S P P H S T G S      V R P V R A Q G E G      L L P
Biological Activity	Measure by its ability to induce human peripheral blood monocytes (PBMCs) proliferation. The ED <sub>50</sub> for this effect is <30 pg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The IL-34 Protein serves as a crucial cytokine, fostering the proliferation, survival, and differentiation of monocytes and macrophages. Its role extends to promoting the release of pro-inflammatory chemokines, thereby playing a pivotal part in innate immunity and inflammatory processes. Moreover, IL-34 assumes a critical role in the regulation of osteoclast proliferation and differentiation, impacting bone resorption. Through signaling via CSF1R and its downstream effectors, IL-
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34 stimulates the phosphorylation of MAPK1/ERK2 and MAPK3/ERK1. Existing as a homodimer, IL-34 interacts specifically with CSF1R, further contributing to its intricate regulatory network.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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