

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

<b>Cat. No.:</b>	HY-P700125AF
<b>Synonyms:</b>	IL34; C16orf77; IL-34; Interleukin-34; MGC34647
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q6ZMJ4-1 (N21-P242)
<b>Gene ID:</b>	146433
<b>Molecular Weight:</b>	Approximately 26.17 kDa under reducing (R) condition.

### PROPERTIES

<b>AA Sequence</b>	<p>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</p> <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</p> <p>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> <p>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</p> <p>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> <p>P S S P P H S T G S      V R P V R A Q G E G      L L P</p>
<b>Biological Activity</b>	Measure by its ability to induce human peripheral blood monocytes (PBMCs) proliferation. The ED <sub>50</sub> for this effect is <30 pg/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 8.0, trehalose.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	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
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proliferation and differentiation, impacting bone resorption. Through signaling via CSF1R and its downstream effectors, IL-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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