

IL-34 Protein, Human (CHO, His)

Cat. No.:	HY-P73211
Synonyms:	Interleukin-34; IL-34; C16orf77
Species:	Human
Source:	CHO
Accession:	Q6ZMJ4-1/AAH29804.1 (N21-P242)
Gene ID:	146433
Molecular Weight:	Approximately 26.7 kDa

PROPERTIES

AA Sequence	<p> 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 Q 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 </p>
Biological Activity	Measured in a cell proliferation assay using human peripheral blood mononuclear cell and the ED ₅₀ is 2-8 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years from date of receipt. 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	Interleukin-34 (IL-34) is a cytokine with pivotal functions in innate immunity and inflammatory processes, as it promotes the proliferation, survival, and differentiation of monocytes and macrophages. Additionally, IL-34 plays a crucial role in the regulation of osteoclast proliferation and differentiation, influencing bone resorption. The cytokine's impact is mediated through its interaction with CSF1R, leading to the activation of downstream effectors and subsequent phosphorylation of
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MAPK1/ERK2 and MAPK3/ERK1. Structurally, IL-34 exists as a homodimer, and its intricate involvement in immune regulation and bone homeostasis highlights its significance in orchestrating cellular responses and maintaining tissue integrity.

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

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