

IL-34 Protein, Mouse (HEK293, His)

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| Cat. No.: | HY-P73212 |
| Synonyms: | Interleukin-34; IL-34; C16orf77 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | Q8R1R4 (N21-P235) |
| Gene ID: | 76527 |
| Molecular Weight: | Approximately 38-40 kDa due to the glycosylation. |

PROPERTIES

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| AA Sequence | <p> N E N L E I W T L T Q D K E C D L T G Y L R G K L Q Y K N R L Q Y M K H Y F P I N Y R I A V P Y E G V L R V A N I T R L Q K A H V S E R E L R Y L W V L V S L N A T E S V M D V L L E G H P S W K Y L Q E V Q T L L E N V Q R S L M D V E I G P H V E A V L S L L S T P G L S 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 P I L K W Q D C E L P R L H P H S P G S L M Q C T A T N V Y P L S R Q T P T S L P G S P S S S H G S L P </p> |
| Biological Activity | <p>1. Measured in a cell proliferation assay using M-NFS-60 mouse myeloid cells and the ED₅₀ is typically ≤200 ng/mL.</p> <p>2. Measured by its ability to bind biotinylated recombinant mouse CSF1R in a functional ELISA.</p> |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| 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

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| 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 |
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through its interaction with CSF1R, leading to the activation of downstream effectors and subsequent phosphorylation of 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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