

# Active Recombinant Mouse Il34 Protein, His-Tagged

**Cat. No.** Il34-01M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Il34 Protein, His-tagged was expressed in E. coli cell                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Interleukin-34 (IL-34) is a protein that promotes the proliferation, survival and differentiation of monocytes and macrophages. It also promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. IL-34 plays an important role in the regulation of osteoclast proliferation and differentiation, and in the regulation of bone resorption. Signaling via CSF1R and its downstream effectors stimulates phosphorylation of MAPK1/ERK2 AND MAPK3/ERK1. |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MNENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINYRIAVPYEGVLRVAN<br>ITRLQKAHVSERELRYLWVLVSLNATESVMDVLE<br>GHPSWKYLQEVQTLEENVQRSLMDVEIGPHVEAVLSLLSTPGLSLKLVRPKALLDNC<br>FRVMELLYCSCCKQSPILKWQDCELPRLHPHSPG<br>SLMQCTATNVYPLSRQTPTSLPGSPSSSHGSLP with polyhistidine tag at the C-terminus                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bio-activity</b>   | Measure by its ability to induce proliferation in NFS-60 cells. The ED50 for this effect is <30 ng/mL. The specific activity of recombinant mouse IL-34 is > 3.3 x 10 <sup>4</sup> IU/mg.                               |
| <b>Purity</b>         | >98% as determined by SDS-PAGE. Ni-NTA chromatography                                                                                                                                                                   |
| <b>Storage Buffer</b> | The protein was lyophilized from a solution containing 1X PBS, pH 7.4.                                                                                                                                                  |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.                                                                                                |
| <b>Notes</b>          | Please use within one month after protein reconstitution.                                                                                                                                                               |

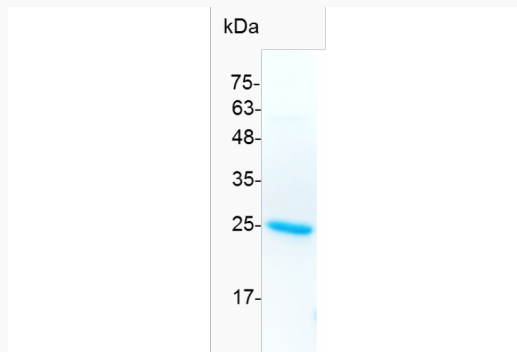
## GENE INFORMATION

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>Gene Name</b>       | IL34 interleukin 34 [ <i>Mus musculus</i> (house mouse) ] |
| <b>Official Symbol</b> | IL34                                                      |
| <b>Synonyms</b>        | 2010004A03Rik                                             |
| <b>Gene ID</b>         | 76527                                                     |
| <b>mRNA Refseq</b>     | NM_001135100.2                                            |
| <b>Protein Refseq</b>  | NP_001128572.1                                            |
| <b>UniProt ID</b>      | Q8R1R4                                                    |

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