

Recombinant Rat IL34 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52696

Size: 10ug, 100ug

Protein Name: Interleukin-34 (IL-34)

Synonym: IL34

UniProt ID: Q4KM46

UniProt Link: www.uniprot.org/uniprotkb/Q4KM46/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 234 AA

Molecular Weight: 27 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MPWGLAWLYCLGILLDVALGNENLEIWTLAQDKECDLTGYLRGKLQYKNRLQYMKHYFPINYRIAVP
YEGVLRVANITRLKAHVSRERLYLWVLVSLNATESVLDVLLEGHPSPWKYLQEVQTLLENVQRSLMD
VEIGPHVEAVLSLLSTPGLSLKLVPRPKALLDNCFRVMELLYCSCCKQSPILKWQDCELPRLHPHSPES
LMQCAATNVYPLPRQPPTSLPRSPSSNHGPLP

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Interleukin-34 (IL-34) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Cytokine that promotes the proliferation, survival and differentiation of monocytes and macrophages. Promotes the release of pro-inflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. 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 (By similarity).

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.