Recombinant IL34 protein (His tag)

Catalog Number	545251
Synonyms	IL-34
Species	Human
Expression System	E. coli
Accession	Q6ZMJ4
Molecular Weight	Predictes a molecular mass of 21.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	21-194
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 21-194 aa (Q6ZMJ4) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Interleukin-34 (IL-34) Fragment (21-194) is a high-quality, soluble protein designed for robust use in structural and biochemical studies. This fragment captures key functional regions of IL-34, supporting research into monocyte and macrophage biology, inflammation, and bone metabolism. Interleukin-34 (IL-34) is a cytokine secreted by human cells that plays a critical role in innate immunity and inflammatory processes. It promotes the proliferation, survival, and differentiation of monocytes and macrophages, and stimulates the release of pro-inflammatory chemokines. Additionally, IL-34 regulates osteoclast proliferation and differentiation, influencing bone resorption. Its signaling occurs through the CSF1R receptor, leading to phosphorylation of MAPK1/ERK2 and MAPK3/ERK1, highlighting its importance in cellular signaling pathways related to immunity and bone homeostasis.