Human IL-34 Protein, His Tag

Catalog # IL4-H52H3

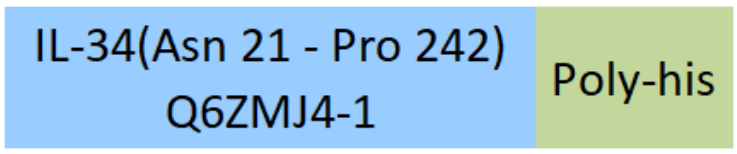
Synonym

IL34,C16orf77,IL-34,Interleukin-34,MGC34647

Source

Human IL-34, His Tag(IL4-H52H3) is expressed from human 293 cells (HEK293). It contains AA Asn 21 - Pro 242 (Accession # Q6ZMJ4-1).

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 27.3 kDa. The protein migrates as 32 kDa and 35-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 0.2 M Arginine, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

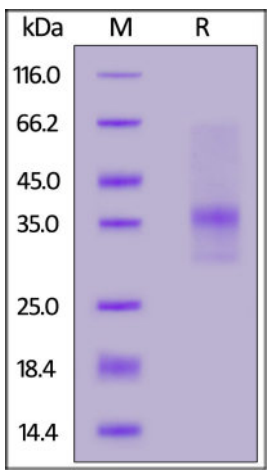
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

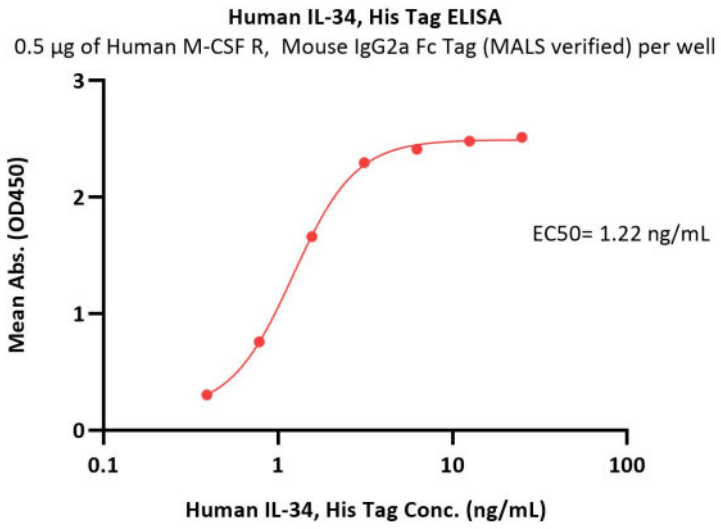
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

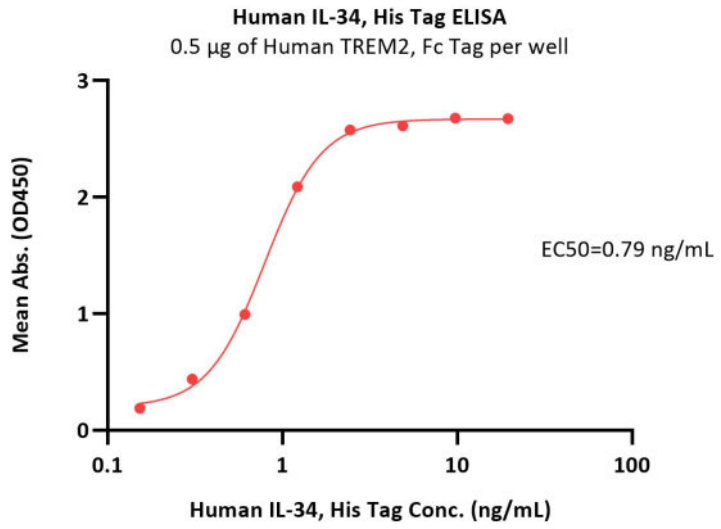


Human IL-34, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Immobilized Human M-CSF R, Mouse IgG2a Fc Tag (MALS verified) (Cat. No. CSR-H5255) at 5 μg/mL (100 μL/well) can bind Human IL-34, His Tag (Cat. No. IL4-H52H3) with a linear range of 0.4-2 ng/mL (QC tested).



Immobilized Human TREM2, Fc Tag (Cat. No. TR2-H5254) at 5 μg/mL (100 μL/well) can bind Human IL-34, His Tag (Cat. No. IL4-H52H3) with a linear range of 0.1-1 ng/mL (Routinely tested).

Background

nterleukins (IL) are a group of cytokines that play an important role in the immune system. They modulate inflammation and immunity by regulating growth, mobility and differentiation of lymphoid and other cells.This entry represents interleukin-34 (IL-34), it was identified via functional screening of a library of secreted proteins [1]. This cytokine promotes the differentiation and viability of monocytes and macrophages through the colony-stimulating factor-1 receptor (CSF1R)

Clinical and Translational Updates