Biotinylated Human IL-34 Protein, His,Avitag™

Catalog # IL4-H82E5

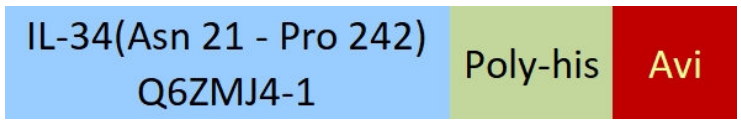
Synonym

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

Source

Biotinylated Human IL-34, His,Avitag(IL4-H82E5) 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, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 29.0 kDa. The protein migrates as 33-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

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, 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

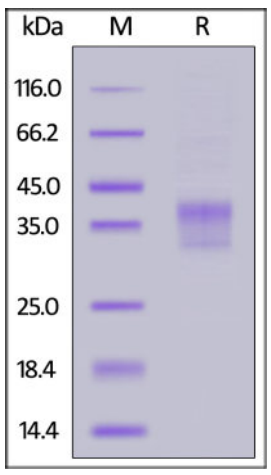
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

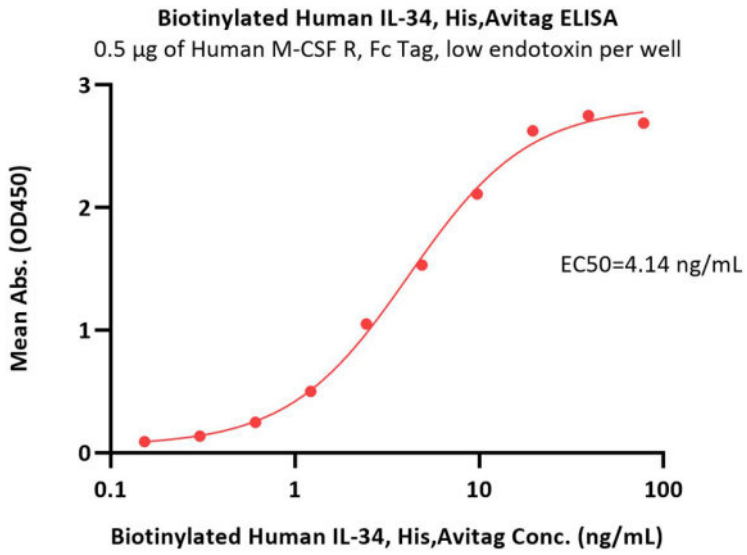
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

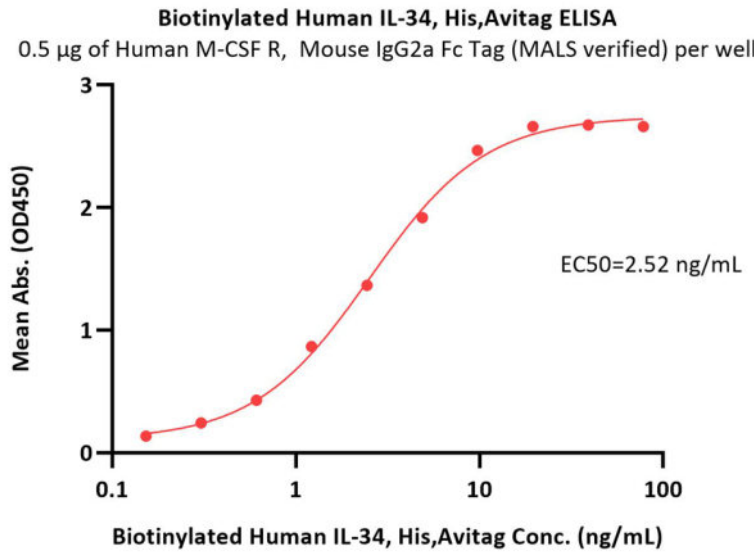


Biotinylated Human IL-34, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

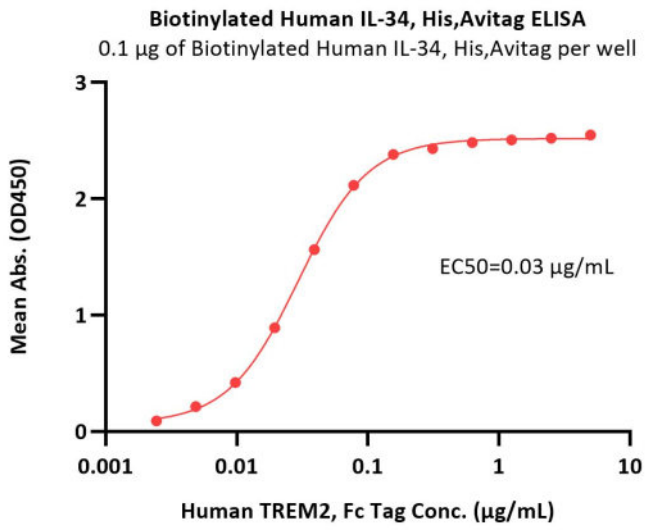
Bioactivity-ELISA



Immobilized Human M-CSF R, Fc Tag, low endotoxin (Cat. No. CSR-H5258) at 5 μg/mL (100 μL/well) can bind Biotinylated Human IL-34, His,Avitag (Cat. No. IL4-H82E5) with a linear range of 0.2-10 ng/mL (QC tested).



Immobilized Human M-CSF R, Mouse IgG2a Fc Tag (MALS verified) (Cat. No. CSR-H5255) at 5 μg/mL (100 μL/well) can bind Biotinylated Human IL-34, His,Avitag (Cat. No. IL4-H82E5) with a linear range of 0.2-10 ng/mL (Routinely tested).



Immobilized Biotinylated Human IL-34, His,Avitag (Cat. No. IL4-H82E5) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Human TREM2, Fc Tag (Cat. No. TR2-H5254) with a linear range of 0.002-0.078 μg/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