Human IL-39 Protein, Fc Tag (MALS verified)

Catalog # IL9-H5259

Synonym

EBI3,IL39,IL-39EBI3,IL39p19,Interleukin-39,IL-39

Source

Human IL-39, Fc Tag(IL9-H5259) is expressed from human 293 cells (HEK293). It contains AA Arg 21 - Lys 229 & Arg 20 - Pro 189 (Accession # Q14213-1 (IL-27 beta) & Q9NPF7-1 (IL-23 alpha)).
Predicted N-terminus: Arg 21

Molecular Characterization

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 69.4 kDa. The protein migrates as 65-70 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 360 mM NaCl, 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

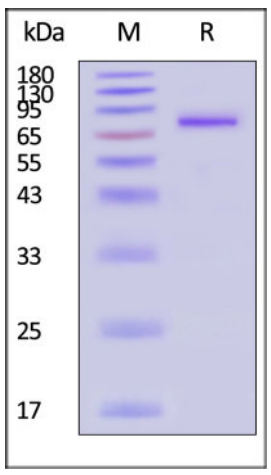
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

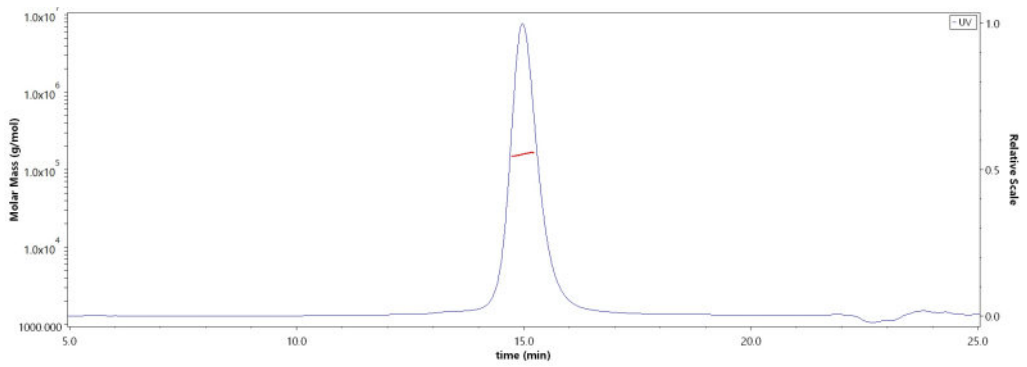
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



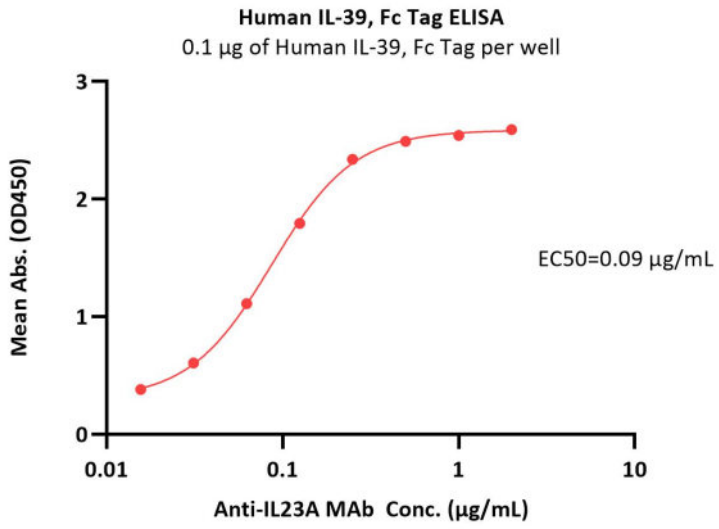
Human IL-39, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human IL-39, Fc Tag (Cat. No. IL9-H5259) is more than 85% and the molecular weight of this protein is around 140-170 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Human IL-39, Fc Tag (Cat. No. IL9-H5259) at 1 μg/mL (100 μL/well) can bind Anti-IL23A MAb with a linear range of 0.02-0.5 μg/mL (QC tested).

Background

Interleukin 39 (IL-39) is a new member of the IL-12 family and is composed of IL-23p19 and Ebi3 subunits.The two subunits, IL-23p19 and Ebi3, are shared with IL-23 and IL-27/IL-35. IL-23p19 is a four-helix bun dle and has homology with IL-6 and granulocyte colony stimulating factor. Ebi3 was first identified in B lympho cytes infected with EB virus. Some studies have reported that the combination of IL-23R and gp130 forms the IL-39 receptor. At present, a research on IL-39 is still in its initial stage, and many issues have not been solved.

Clinical and Translational Updates