Biotinylated Human IGSF8 Protein, Avitag™,His Tag (MALS verified)

Catalog # IG8-H82Q3

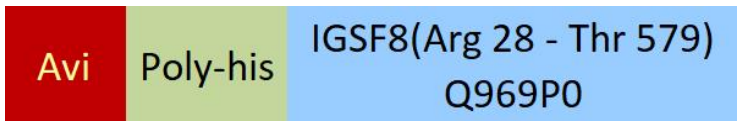
Synonym

IgSF8,CD316,CD81P3,EWI-2,EWI2,KCT-4,LIR-D1,PGRL

Source

Biotinylated Human IGSF8 Protein, Avitag,His Tag(IG8-H82Q3) is expressed from human 293 cells (HEK293). It contains AA Arg 28 - Thr 579 (Accession # Q969P0).
Predicted N-terminus: Gly

Molecular Characterization



This protein carries an Avi tag (Avitag™) at the N-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 62.1 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.

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.

>90% as determined by SEC-MALS.

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

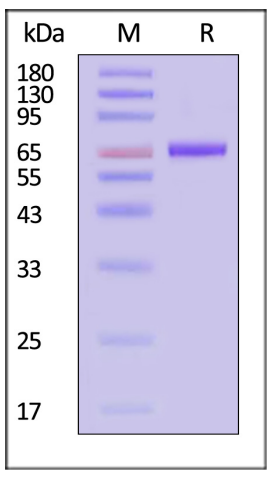
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

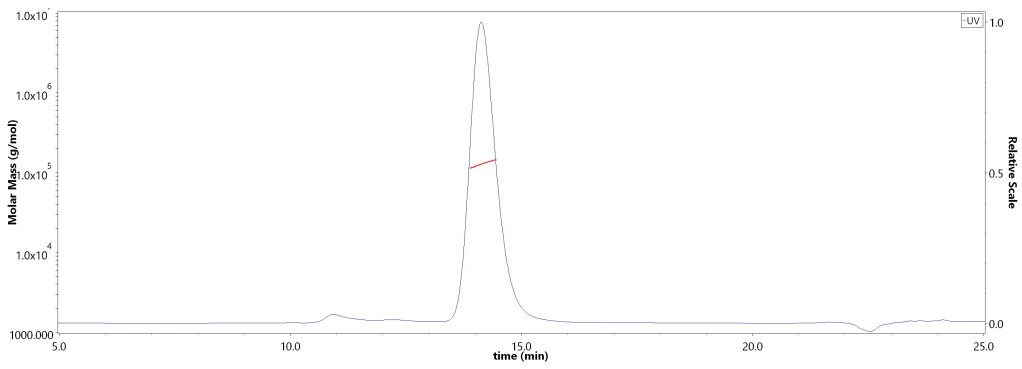
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human IGSF8 Protein, Avitag,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% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Biotinylated Human IGSF8 Protein, Avitag,His Tag (Cat. No. IG8-H82Q3) is more than 90% and the molecular weight of this protein is around 115-145 kDa verified by SEC-MALS.
Report

Background

IGSF8 (Immunoglobulin superfamily member 8) is a member the EWI subfamily of the immunoglobulin protein superfamily, also known as EWI-2, KCT-4, LIR-D1, and PGRL. It interacts with the tetraspanins CD81 and CD9 and may regulate their role in certain cellular functions including cell migration and viral infection. IGSF8 suppresses T-cell mobility coordinately with CD81, associates with CD82 to suppress prostate cancer cell migration, regulates epidermoid cell reaggregation and motility on laminin-5 with CD9 and CD81 as key linkers. It may also play a role on integrin-dependent morphology and motility functions, and may participate in the regulation of neurite outgrowth and maintenance of the neural network in the adult brain. Recent research indicates that IGSF8 is highly expressed on malignant cells with antigen presentation defects, and it interacts with NK receptors to suppress NK cell cytotoxicity.

Clinical and Translational Updates