

Synonym

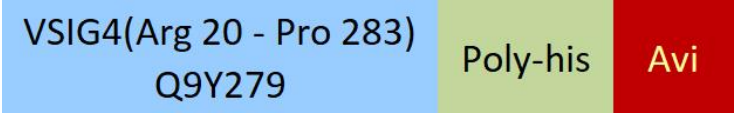
VSIG4,CRIg,Z39IG

Source

Biotinylated Human VSIG4 Protein, His,Avitag(VS4-H82E3) is expressed from human 293 cells (HEK293). It contains AA Arg 20 - Pro 283 (Accession # [Q9Y279](#)).

Predicted N-terminus: Arg 20

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 32.8 kDa. The protein migrates as 43-50 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.

Purity

>90% as determined by SDS-PAGE.

>95% 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

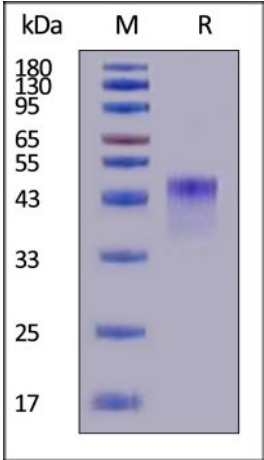
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

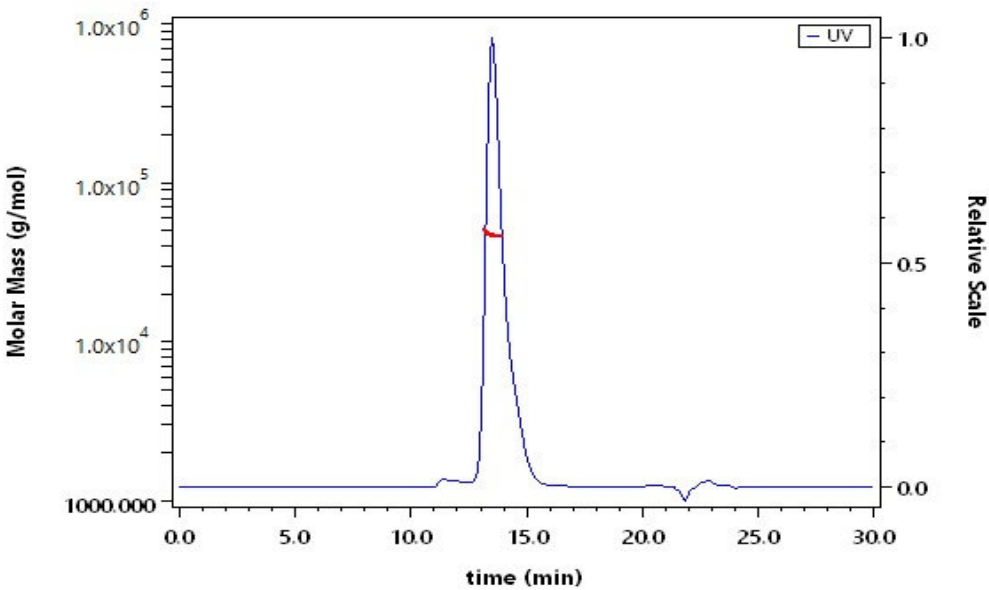
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human VSIG4 Protein, 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Human VSIG4 Protein, His,Avitag (Cat. No. VS4-H82E3) is more than 95% and the molecular weight of this protein is around 40-55 kDa verified by SEC-MALS.
[Report](#)





Background

V-set and immunoglobulin domain-containing protein 4 (VSIG4) is also known as Protein Z39Ig, is a type I transmembrane glycoprotein. VSIG4 is a B7 family-related protein and an Ig superfamily member. VSIG4 contains two Ig-like (immunoglobulin-like) domains. VSIG4 is abundantly expressed in several fetal tissues. In adult tissues, the highest expression of VSIG4 is in lung and placenta. VSIG4 functions as a negative regulator of T cell activation, and may be involved in the maintenance of peripheral T cell tolerance, and is also identified as a potent suppressor of established inflammation. VSIG4 is a phagocytic receptor, strong negative regulator of T-cell proliferation and IL2 production.

