

Synonym

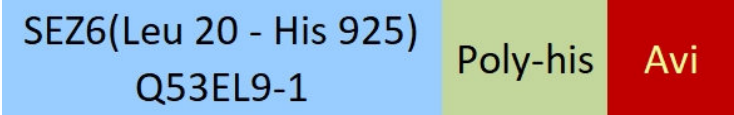
BSRPC

Source

Biotinylated Human SEZ6 Protein, His,Avitag(SE6-H82E3) is expressed from human 293 cells (HEK293). It contains AA Leu 20 - His 925 (Accession # [Q53EL9-1](#)).

Predicted N-terminus: Leu 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 101.3 kDa. The protein migrates as 130-180 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

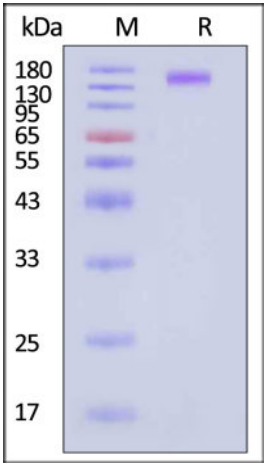
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

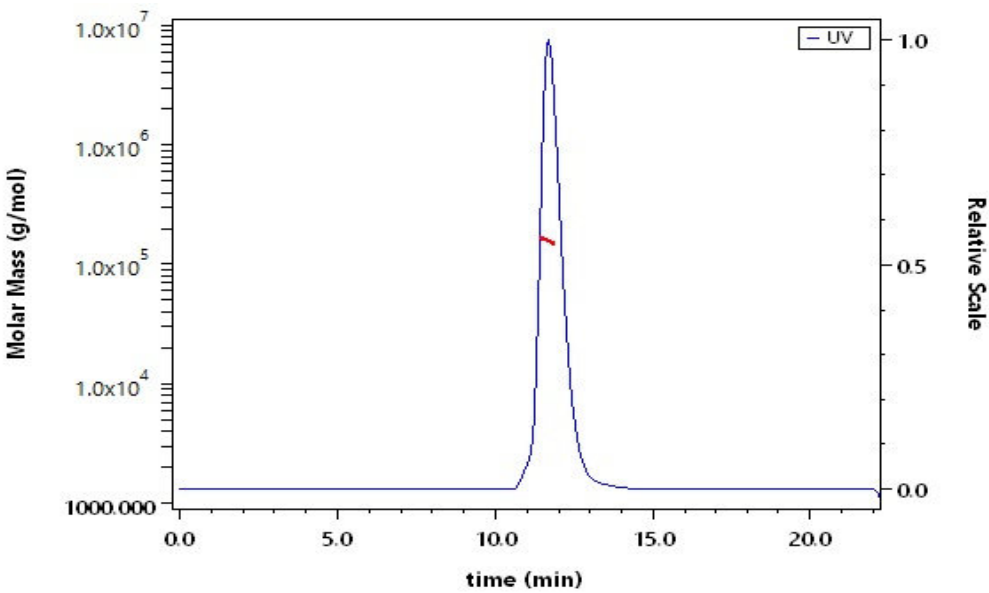
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human SEZ6 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

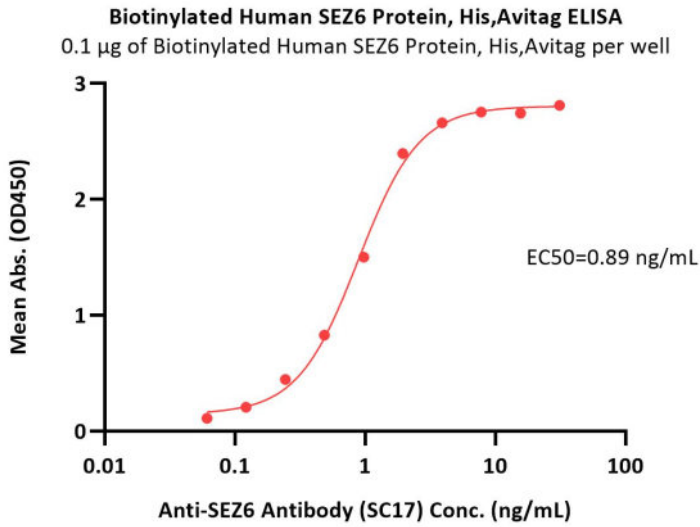


The purity of Biotinylated Human SEZ6 Protein, His,Avitag (Cat. No. SE6-H82E3) is more than 95% and the molecular weight of this protein is around 140-170 kDa verified by SEC-MALS.

[Report](#)

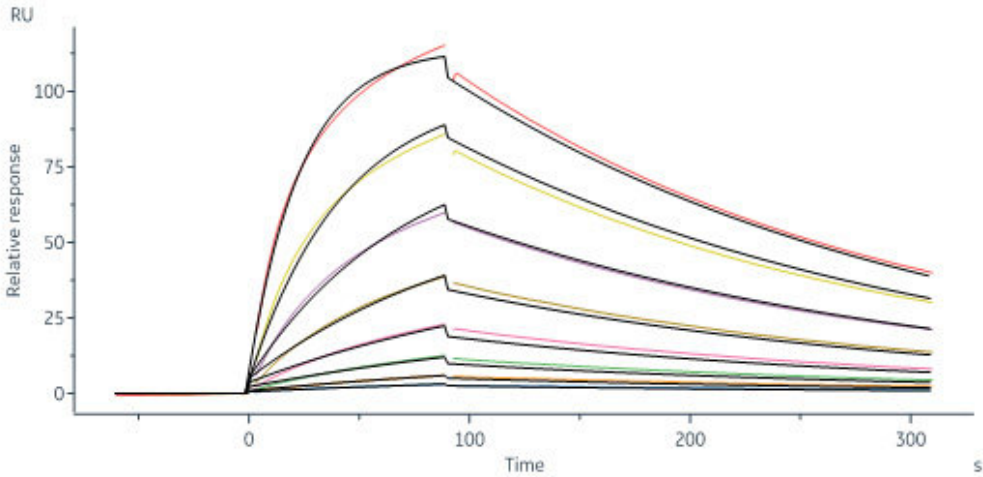
Bioactivity-ELISA





Immobilized Biotinylated Human SEZ6 Protein, His,Avitag (Cat. No. SE6-H82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-SEZ6 Antibody (SC17) with a linear range of 0.06-2 ng/mL (QC tested).

Bioactivity-SPR



Anti-SEZ6 Antibody (SC17) captured on Protein A Chip can bind Biotinylated Human SEZ6 Protein, His,Avitag (Cat. No. SE6-H82E3) with an affinity constant of 30.2 nM as determined in SPR assay (Biacore 8K) (Routinely tested).

Background

May play a role in cell-cell recognition and in neuronal membrane signaling. Seems to be important for the achievement of the necessary balance between dendrite elongation and branching during the elaboration of a complex dendritic arbor. Involved in the development of appropriate excitatory synaptic connectivity.

