

Synonym

Sortilin, SORT1, 100 kDa NT receptor, Glycoprotein
95, Gp95, Gp95LDLCQ6, Neurotensin receptor 3, NT3NTR3, Ntr3, sortilin 1,

Source

Human Sortilin / SORT1, His Tag (SON-H52H5) is expressed from human 293 cells (HEK293). It contains AA Ser 78 - Asn 755 (Accession # [Q99523-1](#)).

Predicted N-terminus: Ser 78

Molecular Characterization

SORT1(Ser 78 - Asn 755)
Q99523-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 77.6 kDa. The protein migrates as 80-95 kDa 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 PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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

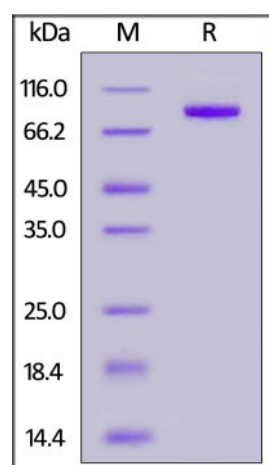
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

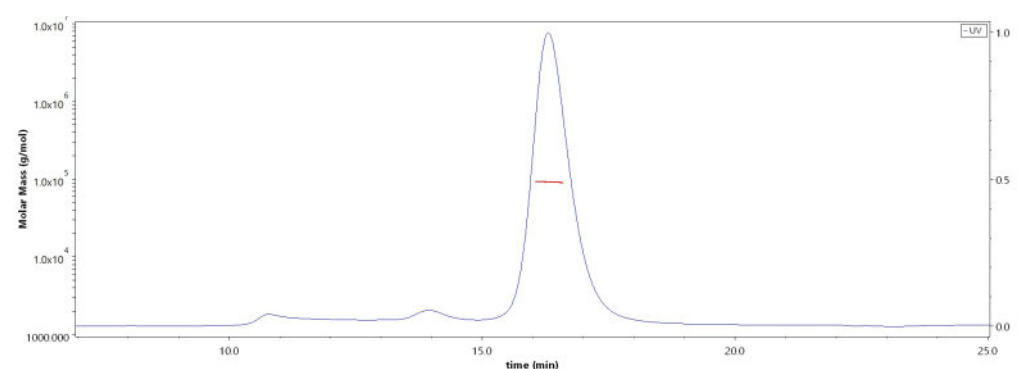
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Sortilin / SORT1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human Sortilin / SORT1, His Tag (Cat. No. SON-H52H5) is more than 85% and the molecular weight of this protein is around 78-105 kDa verified by SEC-MALS.

[Report](#)

Background

The Sortilin is a sorting receptor in the Golgi compartment and as a clearance receptor on the cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a pathway that is independent of the mannose-6-phosphate receptor (M6PR). Lysosomal proteins bind specifically to the receptor in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex. The receptor is then recycled back to the Golgi for another round of trafficking through its binding to the retromer.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.