



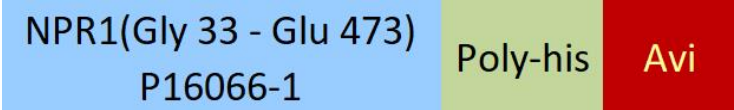
Synonym

Atrial natriuretic peptide receptor 1,NPR1,NPRA,GC-A,ANPRA,NPR-A

Source

Biotinylated Human NPR1, His,Avitag(NP1-H82E9) is expressed from human 293 cells (HEK293). It contains AA Gly 33 - Glu 473 (Accession # [P16066-1](#)). Predicted N-terminus: Gly 33

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 52.5 kDa. The protein migrates as 63-70 kDa 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

>95% as determined by SDS-PAGE.

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

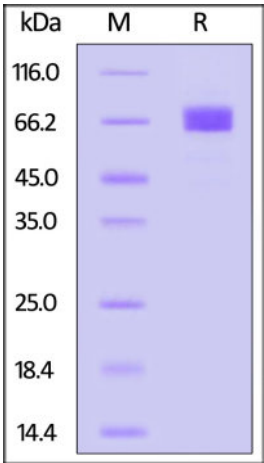
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

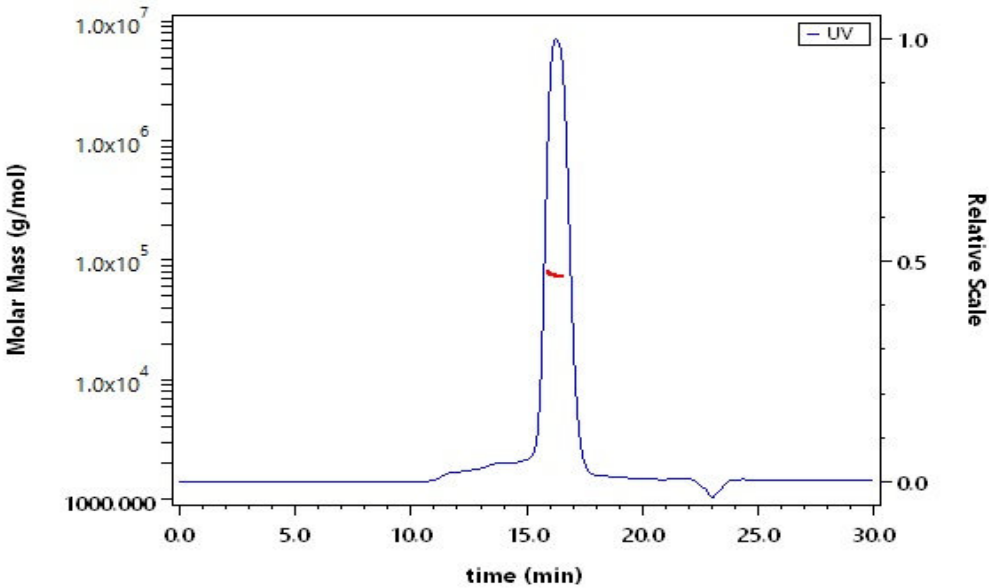
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human NPR1, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

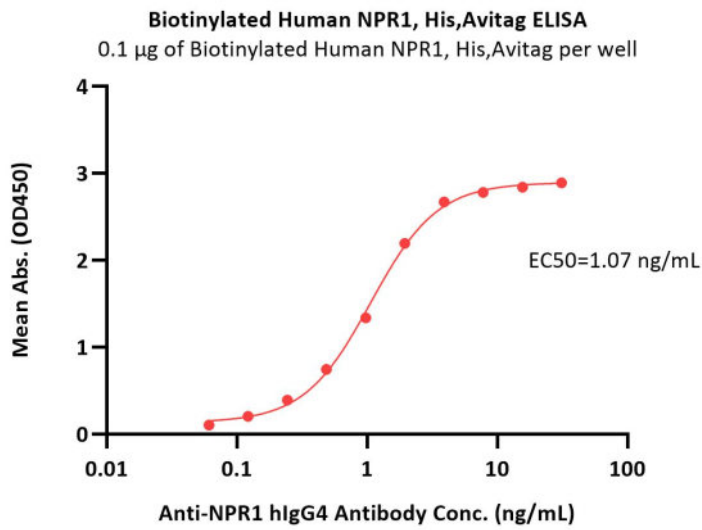


The purity of Biotinylated Human NPR1, His,Avitag (Cat. No. NP1-H82E9) is more than 85% and the molecular weight of this protein is around 65-80 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA





Immobilized Biotinylated Human NPR1, His,Avitag (Cat. No. NP1-H82E9) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-NPR1 hIgG4 Antibody with a linear range of 0.06-2 ng/mL (QC tested).

Background

Receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide NPPB/BNP which are potent vasoactive hormones playing a key role in cardiovascular homeostasis. Has guanylate cyclase activity upon binding of the ligand.

