

Synonym

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

Source

Human NPR1 Protein, His Tag(NP1-H52H3) 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.

The protein has a calculated MW of 53.8 kDa. The protein migrates as 65-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

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

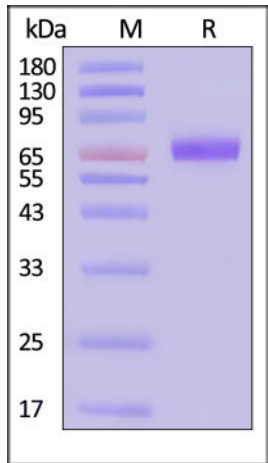
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

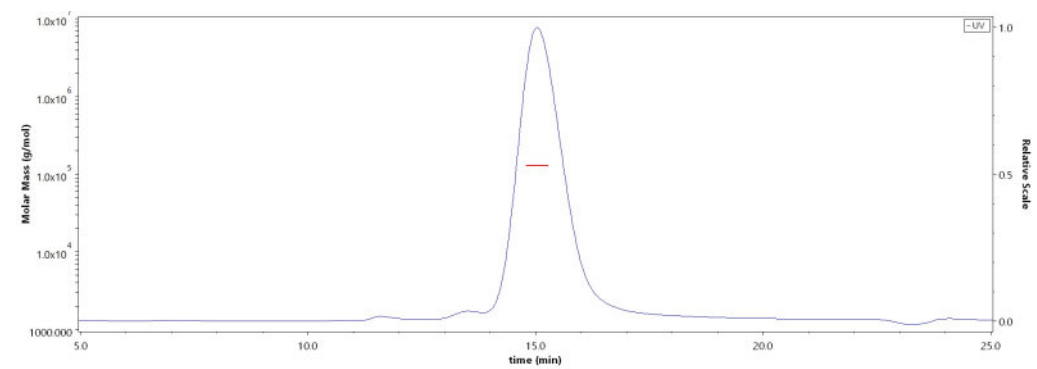
SDS-PAGE



Human NPR1 Protein, 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](#)).

Bioactivity-ELISA

SEC-MALS



The purity of Human NPR1 Protein, His Tag (Cat. No. NP1-H52H3) is more than 95% and the molecular weight of this protein is around 115-145 kDa verified by SEC-MALS.

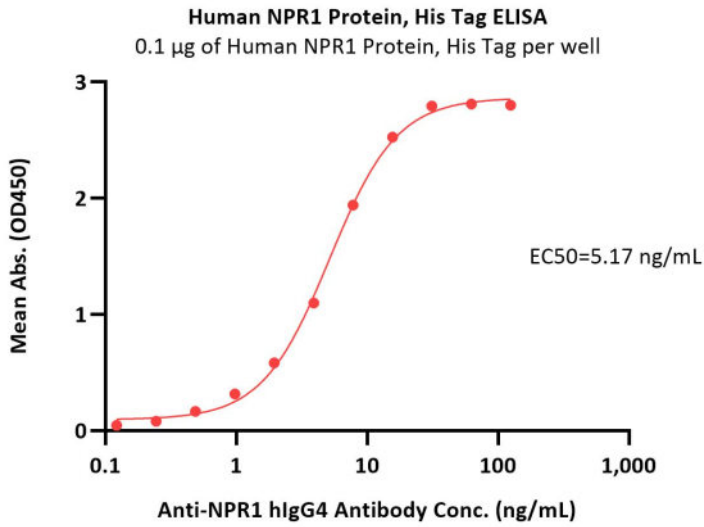
[Report](#)

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Human NPR1 / NPRA Protein, His Tag (MALS verified)

Catalog # NP1-H52H3



Immobilized Human NPR1 Protein, His Tag (Cat. No. NP1-H52H3) at 1 µg/mL (100 µL/well) can bind Anti-NPR1 hIgG4 Antibody with a linear range of 0.1-16 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.

