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

Catalog # NP1-M52H3

Synonym

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

Source

Mouse NPR1 Protein, His Tag(NP1-M52H3) is expressed from human 293 cells (HEK293). It contains AA Ser 29 - Glu 469 (Accession # P18293-1).
Predicted N-terminus: Ser 29

Molecular Characterization

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

The protein has a calculated MW of 54.1 kDa. The protein migrates as 65-85 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

>95% as determined by SDS-PAGE.

>90% 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

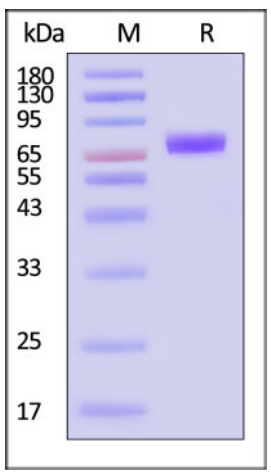
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

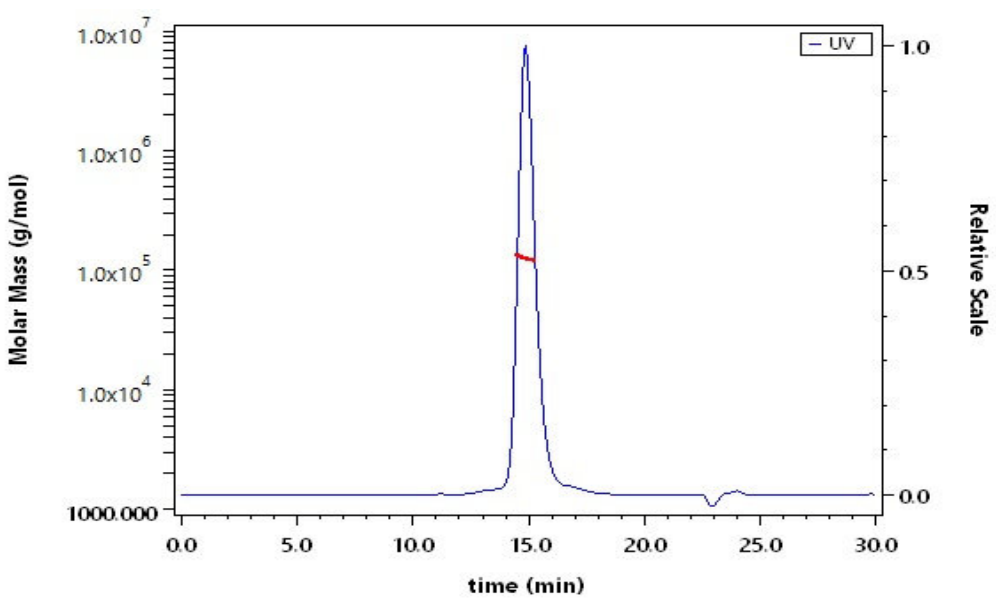
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



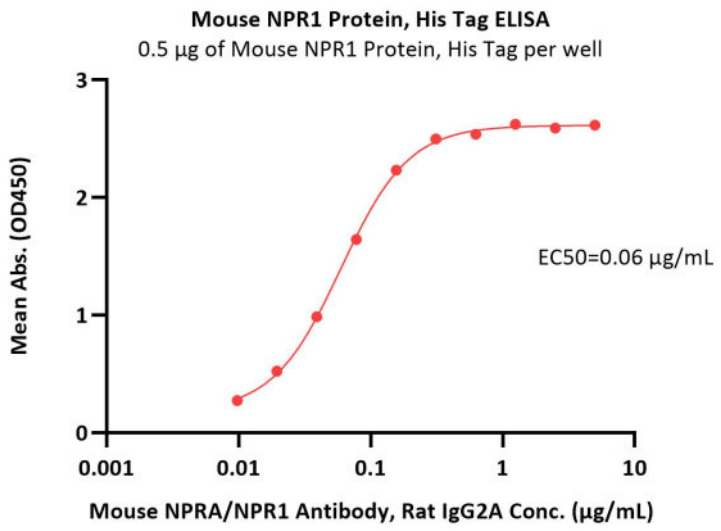
Mouse NPR1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Mouse NPR1 Protein, His Tag (Cat. No. NP1-M52H3) is more than 90% and the molecular weight of this protein is around 110-150 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Mouse NPR1 Protein, His Tag (Cat. No. NP1-M52H3) at 5 μg/mL (100 μL/well) can bind Mouse NPRA/NPR1 Antibody, Rat IgG2A with a linear range of 0.01-0.156 μg/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.