



Synonym

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

Source

Human NPR1, Fc Tag(NP1-H5259) is expressed from human 293 cells (HEK293). It contains AA Gly 33 - Glu 473 (Accession # [P16066-1](#)).

Predicted N-terminus: Gly 33

Molecular Characterization

NPR1(Gly 33 - Glu 473) P16066-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 75.3 kDa. The protein migrates as 95-120 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.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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

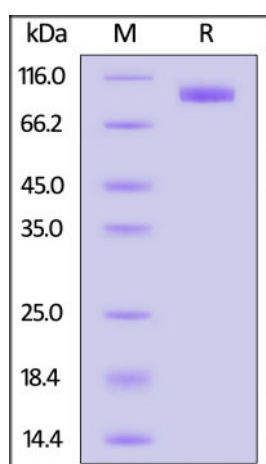
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

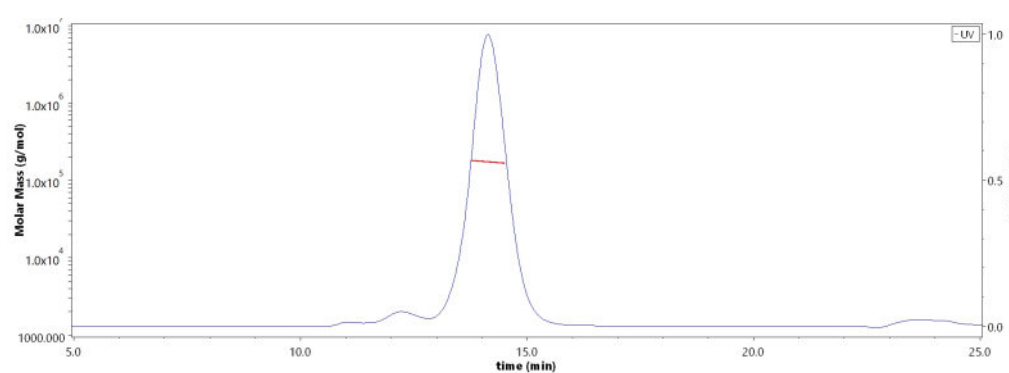
SDS-PAGE



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

Bioactivity-ELISA

SEC-MALS

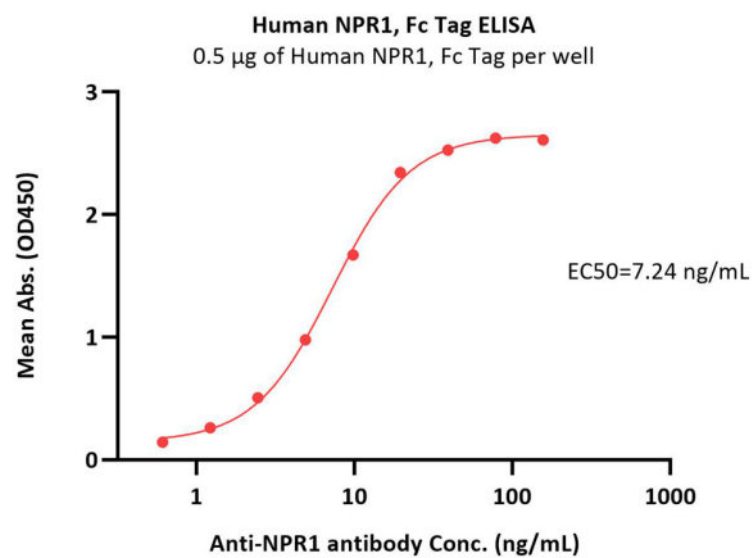


The purity of Human NPR1, Fc Tag (Cat. No. NP1-H5259) is more than 90% and the molecular weight of this protein is around 165-190 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human NPR1, Fc Tag (Cat. No. NP1-H5259) at 5 µg/mL (100 µL/well) can bind Anti-NPR1 antibody with a linear range of 0.6-20 ng/mL (Routinely 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.

Clinical and Translational Updates

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

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