Human NPR1/NPRA Protein

Cat. No. NPR-HM201

Description

Source	Recombinant Human NPR1/NPRA Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus.
	It contains Gly33-Glu473.
Accession	NP_000897.3
Molecular Weight	The protein has a predicted MW of 74.84 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

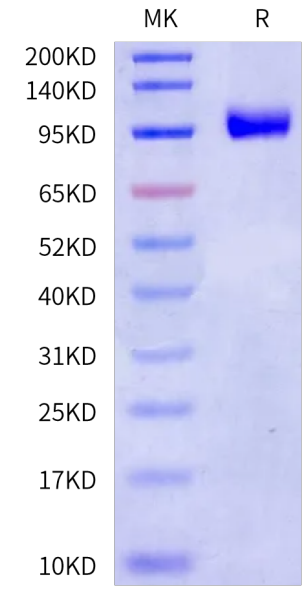
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

NPR1 (natriuretic peptide receptor 1), a receptor of ANP (atrial natriuretic peptide) whitch acting through NPR1, provokes hypotension. NPR1 was abundantly expressed in endothelial cells and smooth muscle cells of small arteries and arterioles. NPR1 plays a crucial role in ANP-mediated blood pressure regulation, presumably by a mechanism that is RGS2-dependent in the acute phase and RGS2-independent in the chronic phase.

Assay Data

Bis-Tris PAGE



Human NPR1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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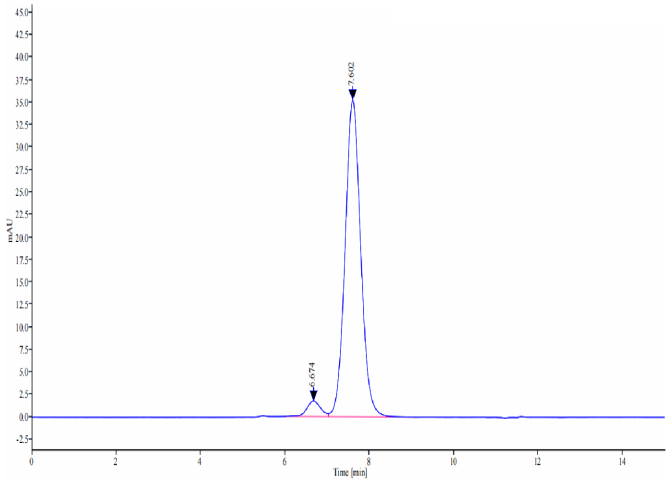
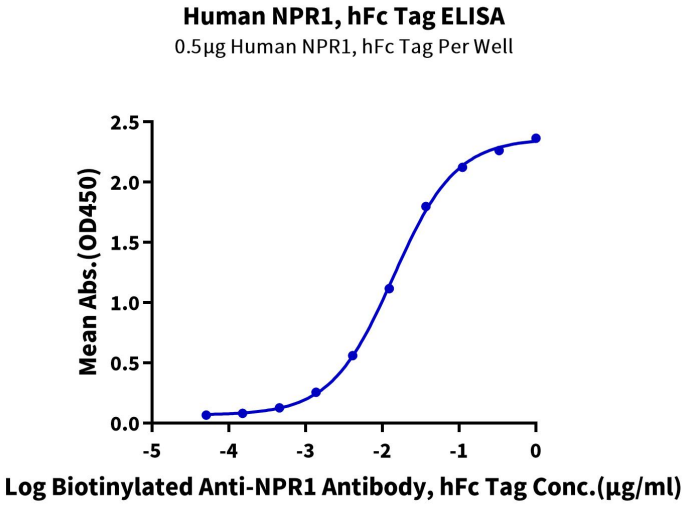
Assay Data



The purity of Human NPR1 is greater than 90% as determined by SEC-HPLC.

ELISA Data



Immobilized Human NPR1, hFc Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-NPR1 Antibody, hFc Tag with the EC50 of 13.9ng/ml determined by ELISA.