

# Human NPR1/NPRA Protein

Cat. No. NPR-HM301

## Description

<b>Source</b>	Recombinant Human NPR1/NPRA Protein is expressed from HEK293 with mFc (IgG1) tag at the C-terminus. It contains Gly33-Glu473.
<b>Accession</b>	NP_000897.3
<b>Molecular Weight</b>	The protein has a predicted MW of 74.56 kDa. Due to glycosylation, the protein migrates to 80-110 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu$ g by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

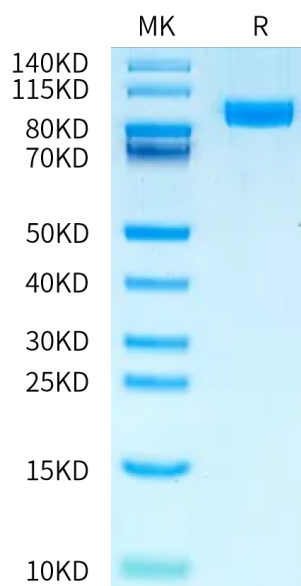
<b>Formulation</b>	Supplied as 0.22 $\mu$ m filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

NPR1 (natriuretic peptide receptor 1), a receptor of ANP (atrial natriuretic peptide) which 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

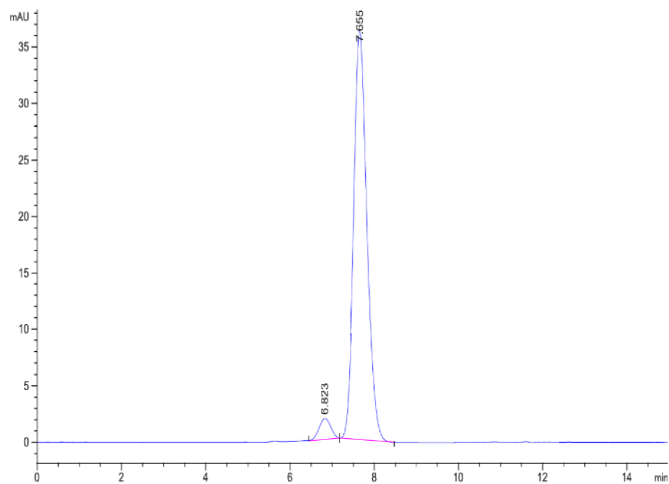
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



The purity of Human NPR1 is greater than 95% as determined by SEC-HPLC.