

# Recombinant Human NPR1

Cat. No. NPR1-28546TH Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human Natriuretic Peptide Receptor A with a proprietary tag; predicted MWt 36.74 kDa including the tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	101 amino acids
<b>Description</b>	Guanylyl cyclases, catalyzing the production of cGMP from GTP, are classified as soluble and membrane forms (Garbers and Lowe, 1994)
<b>Molecular Weight</b>	36.740kDa inclusive of tags
<b>Biological activity</b>	useful for Antibody Production and Protein Array
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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<b>Sequences of amino acids</b>	GVKDEYALTTRAGPSYAKLGDFVAALHRRLGWERQALMLYAYRPGDEEHCFLLVE GLFMRVRDRLNITVDHLEFAEDDLSHYTRLLRRTMPRKGRVIYICSS
<b>Sequence Similarities</b>	Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Contains 1 guanylate cyclase domain. Contains 1 protein kinase domain.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	NPR1 natriuretic peptide receptor A/guanylate cyclase A (atrio-natriuretic peptide receptor A) [ Homo sapiens ]
<b>Official Symbol</b>	NPR1
<b>Synonyms</b>	NPR1; natriuretic peptide receptor A/guanylate cyclase A (atrio-natriuretic peptide receptor A); ANPRA, NPRA; atrial natriuretic peptide receptor 1; ANPa; GUCY2A;
<b>Gene ID</b>	4881
<b>mRNA Refseq</b>	NM_000906
<b>Protein Refseq</b>	NP_000897
<b>MIM</b>	108960
<b>Uniprot ID</b>	P16066
<b>Chromosome Location</b>	1q21-q22
<b>Pathway</b>	Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Vascular smooth muscle contraction, organism-specific biosystem;

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Vascular smooth muscle contraction, conserved biosystem;

**Function**

ATP binding; G-protein coupled peptide receptor activity; GTP binding; guanylate cyclase activity; hormone binding;

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