

Product Information

MemDX™ Membrane Protein Human NPR1 (Natriuretic peptide receptor 1) Expressed in *E.coli* with 6xHis tag at the C-terminus for Antibody Discovery, Partial (33-473aa)

Cat. No.: **MPX4098K**

This product is for research use only and is not intended for diagnostic use.

This product is a 49.9 kDa Human NPR1 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NPR1

Protein Length

Partial (33-473aa)

Protein Class

Receptor

Molecular Weight

49.9 kDa

TMD

1

Sequence

GNLTVAVVLPLANTSYPSWARVGPVELALAQVKARPDLLPGWTVRTVLGSSENALGVCSDTAAPLAAVDLKWEHNPAVFLGPG

Product Description

Expression Systems

E.coli

Tag

6xHis tag at the C-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Purity

>90% as determined by SDS-PAGE

Buffer

Tris-based buffer, 50% glycerol

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

NPR1

Full Name

Natriuretic peptide receptor 1

Introduction

Guanylyl cyclases, catalyzing the production of cGMP from GTP, are classified as soluble and membrane forms (Garbers and Lowe, 1994 [PubMed 7982997]). The membrane guanylyl cyclases, often termed guanylyl cyclases A through F, form a family of cell-surface receptors with a similar topographic structure: an extracellular ligand-binding domain, a single membrane-spanning domain, and an intracellular region that contains a protein kinase-like domain and a cyclase catalytic domain. GC-A and GC-B function as receptors for natriuretic peptides; they are also referred to as atrial natriuretic peptide receptor A (NPR1) and type B (NPR2; MIM 108961). Also see NPR3 (MIM 108962), which encodes a protein with only the ligand-binding transmembrane and 37-amino acid cytoplasmic domains. NPR1 is a membrane-bound guanylate cyclase that serves as the receptor for both atrial and brain natriuretic peptides (ANP (MIM 108780) and BNP (MIM 600295), respectively).

Alternative Names

NPR1; ANPa; NPRA; ANPRA; GUC2A; GUCY2A; atrial natriuretic peptide receptor 1; ANP-A; ANPR-A; GC-A; NPR-A; atrial natriuretic peptide receptor type A; atrionatriuretic peptide receptor A; guanylate cyclase A; natriuretic peptide A type receptor; natriuretic peptide receptor A; natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A); testicular tissue protein Li 20; Natriuretic peptide receptor 1

Gene ID

[4881](#)

UniProt ID

[P16066](#)