

PRODUCT INFORMATION

NPR1 **Target**

Synonyms ANP-A; ANPR-A; ANPRA; NPR-A; GC-A

Recombinant human NPR1 protein with C-Description

terminal human Fc tag

Delivery In Stock **Uniprot ID** P16066 **Expression Host HEK293**

Tag C-Human Fc Tag

Molecular

Reconstitution

Background

Storage & Shipping

Purity

NPR1(Gly33-Glu473) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight**

75.0 kDa after removal of the signal peptide. The apparent molecular mass of NPR1-hFc is

approximately 95-130 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation &

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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 petitides; 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 acquired supplies a membrane bound supplies. 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).[supplied by

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OMIM, May 2009]

Usage Research use only

Conjugate Unconjugated

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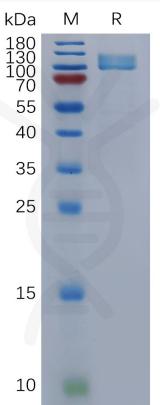


Figure 1. Human NPR1 Protein, hFc Tag on SDS-PAGE under reducing condition.

