

PRODUCT INFORMATION

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| Target | NPR1 |
| Synonyms | ANP-A;ANPR-A;ANPRA;NPR-A;GC-A |
| Description | Recombinant human NPR1 protein with C-terminal human Fc tag |
| Delivery | In Stock |
| Uniprot ID | P16066 |
| Expression Host | HEK293 |
| Tag | C-Human Fc Tag |
| Molecular Characterization | NPR1(Gly33-Glu473) hFc(Glu99-Ala330) |
| Molecular Weight | The protein has a predicted molecular mass of 75.0 kDa after removal of the signal peptide. The apparent molecular mass of NPR1-hFc is approximately 95-130 kDa due to glycosylation. |
| Purity | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| Formulation & Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| Storage&Shipping | 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. |
| Background | 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).[supplied by OMIM, May 2009] |
| Usage | Research use only |
| Conjugate | Unconjugated |



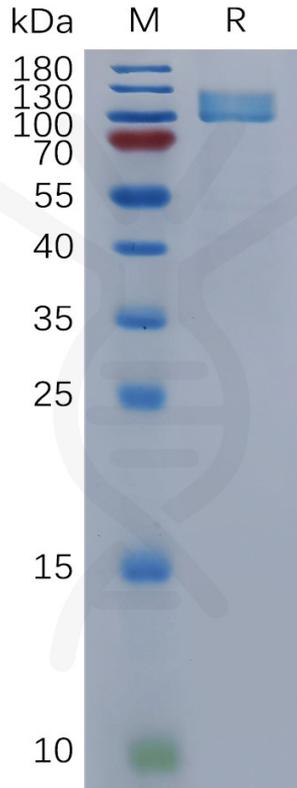


Figure 1. Human NPR1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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