PRODUCT INFORMATION

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

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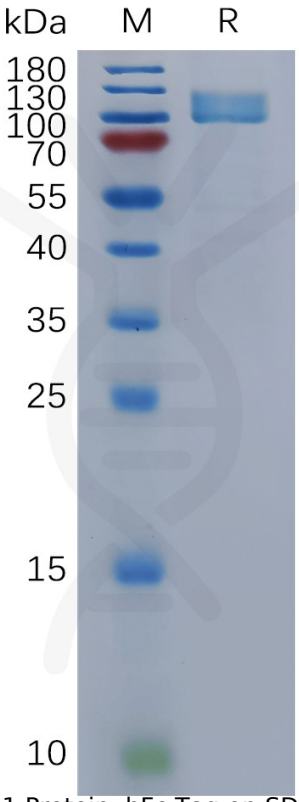


Figure 1. Human NPR1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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