

[Go to Product page](#)

Datasheet for ABIN7491179 NPR1 Protein (Fc Tag)

Overview

Quantity:	100 µg
Target:	NPR1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPR1 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant human NPR1 protein with C-terminal human Fc tag
Specificity:	NPR1 (Gly33-Glu473) hFc (Glu99-Ala330)
Characteristics:	Extracellular Domain Protein
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	NPR1
Alternative Name:	NPR1 (NPR1 Products)
Background:	<p>ANP-A, ANPR-A, ANPRA, NPR-A, GC-A</p> <p>Description: 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</p>

Target Details

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]

Molecular Weight: predicted molecular mass of 75.0 kDa after removal of the signal peptide. The apparent molecular mass of NPR1-hFc is 95-130 kDa due to glycosylation.

UniProt: [P16066](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: 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.

Expiry Date: 12 months