

NPR3 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P71122
Synonyms:	ANP-C; ANPR-C; NPR3; NPRC; NPR-C; ANPRC; C5orf23
Species:	Human
Source:	HEK293
Accession:	P17342 (T24-E481)
Gene ID:	4883
Molecular Weight:	90-100 kDa

PROPERTIES

AA Sequence	<pre> T G G G G V G G G G G G A G I G G G R Q E R E A L P P Q K I E V L V L L P Q D D S Y L F S L T R V R P A I E Y A L R S V E G N G T G R R L L P P G T R F Q V A Y E D S D C G N R A L F S L V D R V A A A R G A K P D L I L G P V C E Y A A A P V A R L A S H W D L P M L S A G A L A A G F Q H K D S E Y S H L T R V A P A Y A K M G E M M L A L F R H H H W S R A A L V Y S D D K L E R N C Y F T L E G V H E V F Q E E G L H T S I Y S F D E T K D L D L E D I V R N I Q A S E R V V I M C A S S D T I R S I M L V A H R H G M T S G D Y A F F N I E L F N S S S Y G D G S W K R G D K H D F E A K Q A Y S S L Q T V T L L R T V K P E F E K F S M E V K S S V E K Q G L N M E D Y V N M F V E G F H D A I L L Y V L A L H E V L R A G Y S K K D G G K I I Q Q T W N R T F E G I A G Q V S I D A N G D R Y G D F S V I A M T D V E A G T Q E V I G D Y F G K E G R F E M R P N V K Y P W G P L K L R I D E N R I V E H T N S S P C K S S G G L E E </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The NPR3 Protein serves as a receptor for the natriuretic peptide hormones, exhibiting similar affinities for atrial natriuretic peptide NPPA/ANP, brain natriuretic peptide NPPB/BNP, and C-type natriuretic peptide NPPC/CNP. It is implicated in the regulation of diuresis, blood pressure, and skeletal development and may function as a clearance receptor for NPPA, NPPB, and NPPC, thereby modulating their local concentrations and effects. Despite lacking guanylate cyclase activity, NPR3 forms homodimers that are disulfide-linked, with additional dimerization possible through the C-terminal cysteine of isoform 2. The receptor also interacts with OSTN, suggesting potential involvement in diverse physiological processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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