NPR1 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71764
Synonyms:	ANP-A; ANPa; Atrionatriuretic peptide receptor A; Guanylate cyclase A; Guanylate cyclase; GUC2A; NPRA
Species:	Human
Source:	P. pastoris
Accession:	P16066 (33G-473E)
Gene ID:	4881
Molecular Weight:	51-75 kDa

PROPERTIES

AA Sequence	G N L T V A V V L P L A N T S Y P W S W A R V G P A V E L A L A Q V K A R P D L L P G W T V R T V L G S S E N A L G V C S D T A A P L A A V D L K W E H N P A V F L G P G C V Y A A A P V G R F T A H W R V P L L T A G A P A L G F G V K D E Y A L T T R A G P S Y A K L G D F V A A L H R R L G W E R Q A L M L Y A Y R P G D E E H C F F L V E G L F M R V R D R L N I T V D H L E F A E D D L S H Y T R L L R T M P R K G R V I Y I C S S P D A F R T L M L L A L E A G L C G E D Y V F F H L D I F G Q S L Q G G Q G P A P R R P W E R G D G Q D V S A R Q A F Q A A K I I T Y K D P D N P E Y L E F L K Q L K H L A Y E Q F N F T M E D G L V N T I P A S F H D G L L L Y I Q A V T E T L A H G G T V T D G E N I T Q R M W N R S F Q G V T G Y L K I D S S G D R E T D F S L W D M D P E N G A F R V V L N Y N G T S Q E L V A V S G R K L N W P L G Y P P P D I P K C G F D N E D P A C N Q D H L S T L E
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 NPR1 Protein serves as a receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide

	NPPB/BNP, essential vasoactive hormones that play a pivotal role in cardiovascular homeostasis. Upon binding to these ligands, NPR1 exhibits guanylate cyclase activity, initiating signaling cascades crucial for maintaining cardiovascular balance. Through its role as a receptor for these natriuretic peptides, NPR1 contributes significantly to the regulation of vascular tone and fluid balance in the cardiovascular system.

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