

## Atrial natriuretic peptide receptor 2/NPR2, Human (His)

Cat. No.:	HY-P72303
Synonyms:	AMDM; ANPB; GCB; GUC2B; NPRB
Species:	Human
Source:	P. pastoris
Accession:	P20594 (R23-I458)
Gene ID:	4882
Molecular Weight:	Approximately 51.0 kDa

### PROPERTIES

AA Sequence	<pre> R N L T L A V V L P   E H N L S Y A W A W   P R V G P A V A L A   V E A L G R A L P V D L R F V S S E L E   G A C S E Y L A P L   S A V D L K L Y H D   P D L L L G P G C V Y P A A S V A R F A   S H W R L P L L T A   G A V A S G F S A K   N D H Y R T L V R T G P S A P K L G E F   V V T L H G H F N W   T A R A A L L Y L D   A R T D D R P H Y F T I E G V F E A L Q   G S N L S V Q H Q V   Y A R E P G G P E Q   A T H F I R A N G R I V Y I C G P L E M   L H E I L L Q A Q R   E N L T N G D Y V F   F Y L D V F G E S L R A G P T R A T G R   P W Q D N R T R E Q   A Q A L R E A F Q T   V L V I T Y R E P P N P E Y Q E F Q N R   L L I R A R E D F G   V E L G P S L M N L   I A G C F Y D G I L L Y A E V L N E T I   Q E G G T R E D G L   R I V E K M Q G R R   Y H G V T G L V V M D K N N D R E T D F   V L W A M G D L D S   G D F Q P A A H Y S   G A E K Q I W W T G R P I P W V K G A P   P S D N P P C A F D   L D D P S C D K T P   L S T L A I           </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. or 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1.0 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
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

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**Background**

Atrial natriuretic peptide receptor 2 (NPR2) functions as a receptor for the C-type natriuretic peptide NPPC/CNP hormone, exhibiting guanylate cyclase activity upon ligand binding. This receptor plays a potential role in the regulation of skeletal growth, suggesting its involvement in processes that govern bone development and maintenance. The interaction between NPR2 and C-type natriuretic peptide highlights its significance in mediating cellular responses to this hormone, particularly in the context of signaling pathways that influence skeletal growth dynamics.

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

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