

NPY2R Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702389
Synonyms:	Neuropeptide Y receptor type 2; NPY-Y2 receptor; Y2 receptor
Species:	Human
Source:	E. coli Cell-free
Accession:	P49146 (M1-V381)
Gene ID:	4887
Molecular Weight:	48.8 kDa

PROPERTIES

AA Sequence	<pre> M G P I G A E A D E N Q T V E E M K V E Q Y G P Q T T P R G E L V P D P E P E L I D S T K L I E V Q V V L I L A Y C S I I L L G V I G N S L V I H V V I K F K S M R T V T N F F I A N L A V A D L L V N T L C L P F T L T Y T L M G E W K M G P V L C H L V P Y A Q G L A V Q V S T I T L T V I A L D R H R C I V Y H L E S K I S K R I S F L I I G L A W G I S A L L A S P L A I F R E Y S L I E I I P D F E I V A C T E K W P G E E K S I Y G T V Y S L S S L L I L Y V L P L G I I S F S Y T R I W S K L K N H V S P G A A N D H Y H Q R R Q K T T K M L V C V V V V F A V S W L P L H A F Q L A V D I D S Q V L D L K E Y K L I F T V F H I I A M C S T F A N P L L Y G W M N S N Y R K A F L S A F R C E Q R L D A I H S E V S V T F K A K K N L E V R K N S G P N D S F T E A T N V </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	NPY2R, the receptor for neuropeptide Y (NPY) and peptide YY (PYY), exhibits distinct affinities for various pancreatic
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polypeptides. The binding preferences of this receptor, in descending order of affinity, are observed as follows: PYY > NPY > PYY (3-36) > NPY (2-36) > [Ile-31, Gln-34] PP > [Leu-31, Pro-34] NPY > PP, [Pro-34] PYY, and NPY free acid. This receptor's nuanced responsiveness to different forms of pancreatic polypeptides underscores its role in selectively recognizing and interacting with these signaling molecules, contributing to the diverse physiological effects mediated by neuropeptide Y and peptide YY.

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

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