

NPY Protein, Human (HEK293, His)

Cat. No.:	HY-P71063
Synonyms:	Pro-Neuropeptide Y; Neuropeptide Y; Neuropeptide Tyrosine; NPY; C-Flanking Peptide of NPY; CPON; NPY
Species:	Human
Source:	HEK293
Accession:	P01303 (Y29-W97)
Gene ID:	4852
Molecular Weight:	Approximately 13.0 kDa

PROPERTIES

AA Sequence	Y P S K P D N P G E D A P A E D M A R Y Y S A L R H Y I N L I T R Q R Y G K R S S P E T L I S D L L M R E S T E N V P R T R L E D P A M W
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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	NPY Protein is implicated in the regulation of feeding behavior and the secretion of gonadotrophin-releasing hormone (GnRH). Its involvement in the control of feeding suggests a key role in the complex neural circuits that modulate appetite and energy balance. Additionally, NPY's influence on GnRH secretion underscores its potential impact on reproductive processes, highlighting its multifaceted role in the intricate interplay between neural and endocrine pathways. Further research is essential to fully elucidate the molecular mechanisms through which NPY exerts its effects on feeding control and GnRH secretion, providing insights into its broader physiological functions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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