

## VIP Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71061
<b>Synonyms:</b>	Vasoactive intestinal peptide; VIP; Intestinal peptide PHV-42; Peptide histidine methioninamide 27; Vasoactive intestinal polypeptide
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P01282-2 (S21-G152)
<b>Gene ID:</b>	7432
<b>Molecular Weight:</b>	Approximately 17-35 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>S Q T S A W P L Y R    A P S A L R L G D R    I P F E G A N E P D    Q V S L K E D I D M</p> <p>L Q N A L A E N D T    P Y Y D V S R N A R    H A D G V F T S D F    S K L L G Q L S A K</p> <p>K Y L E S L M G K R    V S N I S E D P V P    V K R H S D A V F T    D N Y T R L R K Q M</p> <p>A V K K Y L N S I L    N G</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years from date of receipt. 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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>VIP, a neuropeptide with diverse physiological effects, elicits vasodilation, contributing to the lowering of arterial blood pressure. It further stimulates myocardial contractility, enhances glycogenolysis, and induces relaxation in the smooth muscles of the trachea, stomach, and gall bladder. In addition to VIP, both PHM and PHV also display vasodilatory properties. Notably, PHM-27 emerges as a potent agonist of the calcitonin receptor CALCR, demonstrating efficacy comparable to that of calcitonin. These findings highlight the multifaceted actions of VIP and its related peptides in regulating cardiovascular functions and smooth muscle activity.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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