

## VIP(Guinea pig)

Cat. No.:	HY-P1015
CAS No.:	96886-24-7
Molecular Formula:	$C_{147}H_{239}N_{43}O_{42}S_2$
Molecular Weight:	3344.86
Sequence:	His-Ser-Asp-Ala-Leu-Phe-Thr-Asp-Thr-Tyr-Thr-Arg-Leu-Arg-Lys-Gln-Met-Ala-Met-Lys-Lys-Tyr-Leu-Asn-Ser-Val-Leu-Asn-NH2
Sequence Shortening:	HSDALFTDYTRLRQKQAMMKYLNNSVLN-NH2
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year  * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

Description	VIP Guinea pig (Vasoactive intestinal peptide), a trophic and mitogenic factor, stimulates growth in whole cultured embryos. VIP Guinea pig functions as a simple gastrointestinal hormone and suggest a possible neurotransmitter function <sup>[1][2]</sup> .
In Vitro	Vasoactive intestinal peptide (10 <sup>-7</sup> M) shortened S phase and G1 phase of neuroepithelial cells by 50% (4.8-2.4 h) and 58% (1.9-0.8 h), respectively, compared with controls <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. P Gressens, et al. Vasoactive intestinal peptide shortens both G1 and S phases of neural cell cycle in whole postimplantation cultured mouse embryos. Eur J Neurosci. 1998 May;10(5):1734-42.
- [2]. M G Bryant, et al. Possible dual role for vasoactive intestinal peptide as gastrointestinal hormone and neurotransmitter substance. Lancet. 1976 May 8;1(7967):991-3.

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

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