

## Pheromone Biosynthesis Activating Neuropeptide (Helicoverpa assulta, Heliothis zea)

Cat. No.:	HY-P4807
CAS No.:	122071-54-9
Molecular Formula:	C <sub>167</sub> H <sub>259</sub> N <sub>47</sub> O <sub>57</sub> S <sub>2</sub>
Molecular Weight:	3901.25
Sequence:	Leu-Ser-Asp-Asp-Met-Pro-Ala-Thr-Pro-Ala-Asp-Gln-Glu-Met-Tyr-Arg-Gln-Asp-Pro-Glu-Gln-Ile-Asp-Ser-Arg-Thr-Lys-Tyr-Phe-Ser-Pro-Arg-Leu-NH <sub>2</sub>
Sequence Shortening:	LSDDMPATPADQEMYRQDPEQIDSRTKYFSPRL-NH <sub>2</sub>
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Pheromone Biosynthesis Activating Neuropeptide (Helicoverpa assulta, Heliothis zea) (PBAN), a member of the PBAN/Pyrokinin neuropeptide family, characterized by a common amino acid sequence FXPRLamide motif in the C-terminus <sup>[1]</sup> .
<b>In Vitro</b>	PBAN activates pheromone production through its binding to a PBAN-Receptor (PBAN-R) and subsequent up-regulation of key enzymes in the biosynthetic pathway <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Ada Rafaeli, et al. Pheromone biosynthesis activating neuropeptide (PBAN): regulatory role and mode of action. Gen Comp Endocrinol. 2009 May 15;162(1):69-78.

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

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