

## Polyphemusin II-Derived Peptide

Cat. No.:	HY-P4810
CAS No.:	229030-20-0
Molecular Formula:	C <sub>90</sub> H <sub>141</sub> N <sub>33</sub> O <sub>18</sub> S <sub>2</sub>
Molecular Weight:	2037.42
Sequence:	Arg-Arg-2-Nal-Cys-Tyr-Arg-Lys-D-Lys-Pro-Tyr-Arg-Cit-Cys-Arg (Disulfide bridge:Cys4-Cys13)
Sequence Shortening:	RRACYRKKPYR-{Cit}-CR (Disulfide bridge:Cys4-Cys13)
Target:	CXCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	Polyphemusin II-Derived Peptide (T140), a CXCR4 inhibitor, shows high inhibitory activity against HIV-1 entry and the inhibitory effect on the binding of an anti-CXCR4 monoclonal antibody (12G5) to CXCR4 <sup>[1]</sup> .
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### REFERENCES

[1]. H Tamamura, et al. A low-molecular-weight inhibitor against the chemokine receptor CXCR4: a strong anti-HIV peptide T140. *Biochem Biophys Res Commun.* 1998 Dec 30;253(3):877-82.

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

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