

Poneratoxin

Cat. No.:	HY-P10234
CAS No.:	137084-94-7
Molecular Formula:	C ₁₂₉ H ₂₁₅ N ₃₃ O ₃₁ S
Molecular Weight:	2756.35
Sequence:	Phe-Leu-Pro-Leu-Leu-Ile-Leu-Gly-Ser-Leu-Leu-Met-Thr-Pro-Pro-Val-Ile-Gln-Ala-Ile-His-Asp-Ala-Gln-Arg-NH ₂
Sequence Shortening:	FLPLLILGSLMTTPVVIQAIHDAQR-NH ₂
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Poneratoxin is a peptide toxin, which regulates the sodium currents in mammalian, and causes long-lasting pain ^[1] .	
In Vivo	Poneratoxin causes immediate and long-lasting nocifensive behaviours (20 to 600 pmol, intraplantar injection, single dose) in C57BL/6 J mice model, and leads to paralysis with PD ₅₀ (1 h) of 74.3 nmol/g in blowflies model (0-100 nmol/g, ip, single dose) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	C57BL/6 J mice model ^[1]
	Dosage:	20 to 600 pmol
	Administration:	intraplantar injection, single dose
	Result:	Caused spontaneous nocifensive behaviours.
	Animal Model:	blowflies model ^[1]
	Dosage:	0-100 nmol/g
	Administration:	Ip, single dose
	Result:	Caused paralysis.

REFERENCES

[1]. Robinson SD, et al., Ant venoms contain vertebrate-selective pain-causing sodium channel toxins. Nat Commun. 2023 May 23;14(1):2977.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA