

Product Name : Psalmotoxin 1
Cat. No. : PC-73334
CAS No. : 316808-68-1
Molecular Formula : C₂₀₀H₃₁₂N₆₂O₅₇S₆
Molecular Weight : 4689.41
Target : Sodium Channel
Solubility : 10 mM in DMSO

EDCIPKWKGCVNRHGDCCGEGLECWKRRRSFEVCVPKTPKT
(Modifications: Disulfide bridges: 3-18, 10-23, 17-33)

1. Mazzuca M, et al. *Nat Neurosci.* 2007
Aug;10(8):943-5.

Biological Activity

Psalmotoxin 1 (PcTx1, Psalmotoxin-1) is a potent and selective acid-sensing ion channel 1a (**ASIC1a**) blocker with IC₅₀ of 0.9 nM.

Psalmotoxin 1 displays no effect at ASIC1b, ASIC2a, ASIC3, heteromeric ASIC channels, ENaC and KV2.1/2.2/4.2/4.3 channels expressed in oocytes at 100 nM.

Psalmotoxin 1 exhibits potent analgesic properties against thermal, mechanical, chemical, inflammatory and neuropathic pain in rodents.

References

