

Product Data Sheet

Product Name: ProTx III
Cat. No.: GC50264

Chemical Properties

Cas. No.

Formula C162H246N52O43S6 M.Wt 3802.41

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

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  Asp-Cys-Leu-Lys-Phe-Gly-Trp-Lys-Cys-Asn-
  |
  Pro-Arg-Asn-Asp-Lys-Cys-Cys-Ser-Gly-Leu-
  |
  Lys-Cys-Gly-Ser-Asn-His-Asn-Trp-Cys-Lys-
  |
  Leu-His-Ile-NH2
  
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Background

Potent Nav1.7 blocker (IC₅₀ = 2.5 nM). Also inhibits Nav1.1, Nav1.2, Nav1.3 and Nav1.6 in the nanomolar range. Exhibits no effects on Cav channels or nAChR at 5 µM. Demonstrates analgesic activity in vivo; antagonizes effects of scorpion-venom toxin OD1 at Nav1.7.

Cardoso et al (2015) Identification and characterization of ProTx-III [µ-TRTX-Tp1a], a new voltage-gated sodium channel inhibitor from venom of the tarantula thrixopelma pruriens. Mol.Pharmacol. 88 291 PMID:25979003

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

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