

Product Data Sheet

Product Name: ProTx II TFA

Cat. No.: GC72116

Chemical Properties

Cas. No.

Formula $C_{168}H_{250}N_{46}O_{41}S_8 \cdot xC_2HF_3O_2$ M.Wt 3826.59 (free base)

Solubility H_2O : 100 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture and light, under nitrogen

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

YCQKWMWTCDSERKCEGMVCRLLWCKKKLW (Disulfide bridge: Cys₁₂-Cys₁₄₅; Cys₅₂-Cys₂₁₁; Cys₁₃₉-Cys₂₂₃) (TFA salt)

Background

ProTx II TFA is a selective blocker of Nav1.7 sodium channels with an IC₅₀ of 0.3 nM, and is at least 100-fold selective for Nav1.7 over other sodium channel subtypes. ProTx-II inhibits sodium channels by decreasing channel conductance and shifting activation to more positive potentials and blocks action potential propagation in nociceptors.

References:

[1]. Tanaka K, et al. Antihyperalgesic effects of ProTx-II, a Nav1.7 antagonist, and A803467, a

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

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Nav1.8 antagonist, in diabetic mice. J Exp Pharmacol. 2015 Jun 24;7:11-6.

[2]. Schmalhofer WA, et al. ProTx-II, a selective inhibitor of NaV1.7 sodium channels, blocks action potential propagation in nociceptors. Mol Pharmacol. 2008 Nov;74(5):1476-84.

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