

Product Data Sheet

Product Name: Phrixotoxin 3-NH₂ TFA

Cat. No.: GC74340

Chemical Properties

Cas. No.

Formula C₁₇₆H₂₇₀N₅₂O₄₇S₆.xC₂HF₃O₂ M.Wt 4058.74 (free base)

Solubility Storage Sealed storage, away from moisture

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

Asp-Cys-Leu-Gly-Phe-Leu-Trp-Lys-Cys-
Asn-Pro-Ser-Asn-Asp-Lys-Cys-Cys-Arg-
Pro-Asn-Leu-Val-Cys-Ser-Arg-Lys-Asp-
Lys-Trp-Cys-Lys-Tyr-Gln-Ile-NH₂
(Disulfide bridge: Cys2-Cys17; Cys9-
Cys23; Cys16-Cys30) (TFA salt)

Background

Phrixotoxin 3-NH₂ TFA is a derivative of Phrixotoxin 3 TFA. Phrixotoxin 3 TFA is a potent blocker of voltage-gated sodium channels, with IC₅₀s of 0.6, 42, 72, 288, 610 nM for NaV1.2, NaV1.3, NaV1.4, NaV1.1 and NaV1.5, respectively. Phrixotoxin 3 TFA modulates voltage-gated sodium channels with properties similar to those of typical gating-modifier toxins, both by causing a depolarizing shift in gating kinetics and by blocking the inward component of the sodium current.

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

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References:

[1]. Bosmans F, et, al. Four novel tarantula toxins as selective modulators of voltage-gated sodium channel subtypes. Comparative Study Mol Pharmacol. 2006 Feb; 69(2): 419-29.

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