

Product Data Sheet

Product Name: α -Conotoxin PIA TFA

Cat. No.: GC63269

Chemical Properties

Cas. No.

Formula $C_{81}H_{126}F_3N_{27}O_{27}S_4$ M.Wt 2095.28

Solubility DMSO : ≥ 250 mg/mL (119.32 mM) Storage -20°C , 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

RDPCCSNPVCTVHNPQIC-NH₂
(Disulfide bridge: Cys₄-Cys₁₀; Cys₅-Cys₁₈) (TFA salt)

Background

α -Conotoxin PIA TFA is a nicotinic acetylcholine receptor (nAChR) antagonist that targets nAChR subtypes containing $\alpha 6$ and $\alpha 3$ subunits. α -Conotoxin PIA has the potential for the research of Parkinson's disease, and schizophrenia[1].

[1]. Seung-Wook Chi, et al. Solution Structure of Alpha-Conotoxin PIA, a Novel Antagonist of alpha6 Subunit Containing Nicotinic Acetylcholine Receptors. Biochem Biophys Res Commun. 2005 Dec 30;338(4):1990-7.

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

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