
Product Data Sheet

Product Name: Galanthamine N-Oxide

Cat. No.: GC64492

Chemical Properties

Cas. No. 134332-50-6

Formula C₁₇H₂₁NO₄

M.Wt 303.35

Solubility DMSO : 6.25 mg/mL (20.60 mM); ultrasonic and warming and heat to 60°C)

Storage 4°C, away from moisture and light

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 **Background**

Galanthamine N-Oxide is an alkaloid obtained from the bulbs of *Zephyranthes concolor*. Galanthamine N-Oxide inhibits electric eel acetylcholinesterase (AChE) with an EC₅₀ of 26.2 μM. Galanthamine N-Oxide is a prominent inhibitor of substrate accommodation in the active site of the *Torpedo californica* AChE (TcAChE), hAChE and hBChE enzymes[1] [2].

[1]. Reyes-Chilpa R, et al. Acetylcholinesterase-inhibiting alkaloids from *Zephyranthes concolor*. *Molecules*. 2011 Nov 15;16(11):9520-33.

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

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