

Product Data Sheet

Product Name: Octoclotheptine

Cat. No.: GC79314

Chemical Properties

Cas. No. 13448-22-1

Formula $C_{19}H_{21}ClN_2S$

M.Wt 344.9

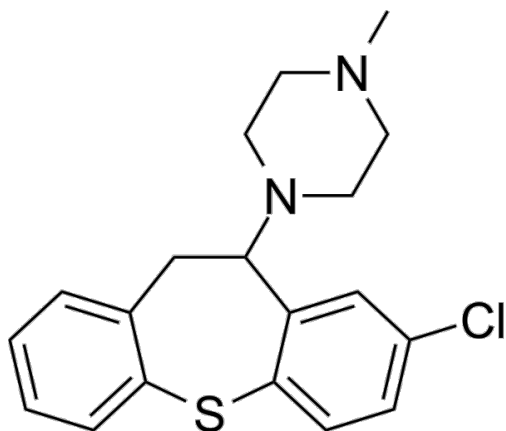
Solubility DMSO: 10 mg/mL (28.99 mM);
ultrasonic and warming and heat to
60°C)

Storage Store at 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

Octoclotheptine (Clorotepine) is a D₂ dopamine receptor antagonist and 5-HT₂ serotonin receptor antagonist, with K_i values of 0.67 nM, 0.57 nM, and 0.19 nM for the dopamine D₂, 5-HT_{2A}, and 5-HT_{2C} receptors, respectively. Octoclotheptine also binds to adrenergic receptors, with K_i values of 0.66 nM, 0.56 nM, and 0.77 nM for α_{1a}, α_{1b}, and α_{1d}, respectively. Octoclotheptine can be used in schizophrenia research [1].

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

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In Vitro, Octoclothepein (Compound 8) binds with subnanomolar to nanomolar affinity to bovine $\alpha 1a$ -, hamster $\alpha 1b$ -, rat $\alpha 1d$ -adrenoceptors, human D2, human 5-HT2A, and human 5-HT2C receptors,, with K_i values of 0.66 nM, 0.56 nM, 0.77 nM, 0.67 nM, 0.57 nM, and 0.19 nM, respectively^[1].

References:

[1]. Helia O, et al. Reduction of octoclothepeine-N-oxide by rat liver microsomes. Eur J Drug Metab Pharmacokinet. 1981;6(2):155-8.

[2]. Roth BL, et al. Binding of typical and atypical antipsychotic agents to 5-hydroxytryptamine-6 and 5-hydroxytryptamine-7 receptors. J Pharmacol Exp Ther. 1994 Mar;268(3):1403-10.

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