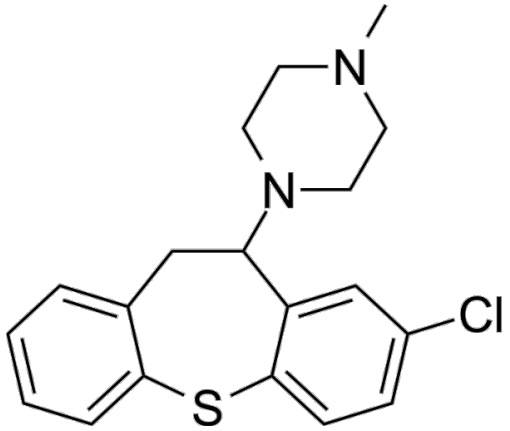
# Product Data Sheet

Product Name: Octoclothepine
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

Octoclothepin (Clorotepine) is a D 2 dopamine receptor antagonist and 5-HT 2 serotonin receptor antagonist, with K i values of 0.67 nM, 0.57 nM, and 0.19 nM for the dopamine D 2, 5-HT 2A, and 5-HT 2C receptors, respectively. Octoclothepin 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. Octoclothepin 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, Octoclothepin (Compound 8) binds with subnanomolar to nanomolar affinity to bovine α1a-, hamster α1b-, rat α1d-adrenoceptors, human D2, human 5-HT2A, and human 5-HT2C receptors,, with Ki 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 octoclothepine-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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