

Methiothepin mesylate

Catalog No: tcsc0030713



Available Sizes

Size: 10mg



Specifications

CAS No:

74611-28-2

Formula:

$C_{21}H_{28}N_2O_3S_3$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 125 mg/mL (276.15 mM)

Alternative Names:

Metitepine mesylate;Ro 8-6837 mesylate

Observed Molecular Weight:

452.65

Product Description

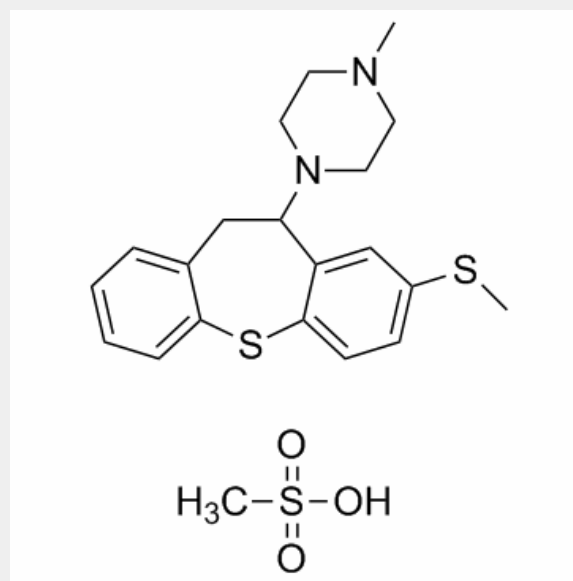
Methiothepin mesylate is a potent and non-selective **5-HT₂ receptor** antagonist, with pK_ds of 7.10 (5-HT_{1A}), 7.28 (5HT_{1B}), 7.56 (5HT_{1C}), 6.99 (5HT_{1D}), 7.0 (5-HT_{5A}), 7.8 (5-HT_{5B}), 8.74 (5-HT₆), and 8.99 (5-HT₇), and pK_is of 8.50 (5HT_{2A}), 8.68 (5HT_{2B}), and 8.35 (5HT_{2C}).

IC50 & Target: pKd: 7.10 (5-HT_{1A}), 7.28 (5HT_{1B}), 7.56 (5HT_{1C}), 6.99 (5HT_{1D})^[1], 7.0 (5-HT_{5A}), 7.8 (5-HT_{5B}), 8.74 (5-HT₆), 8.99 (5-HT₇)

[3]

pK_i: 8.50 (5-HT_{2A}), 8.68 (5-HT_{2B}), 8.35 (5-HT_{2C})^[2]

In Vitro: Methiothepin mesylate is a 5-HT receptor antagonist, with pK_ds of 7.10, 7.28, 7.56, and 6.99 for 5-HT_{1A}, 5HT_{1B}, 5HT_{1C}, 5HT_{1D}^[1]. Methiothepin mesylate also shows pK_ds of 7.0, 7.8, 8.74, and 8.99 for 5-HT_{5A}, 5-HT_{5B}, 5-HT₆, and 5-HT₇, respectively^[2]. Methiothepin exhibits high affinity at 5-HT_{2A}, 5HT_{2B}, and 5HT_{2C} with pK_is of 8.50, 8.68, and 8.35, respectively^[3].



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