

Product Name: BD 1063 dihydrochloride

Catalog No.: 0883

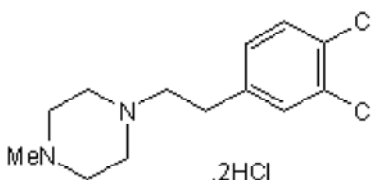
Batch No.: 5

CAS Number: 206996-13-6

IUPAC Name: 1-[2-(3,4-Dichlorophenyl)ethyl]-4-methylpiperazine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₈Cl₂N₂.2HCl
Batch Molecular Weight: 346.13
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.11	5.82	8.09
Found	45.12	5.8	8

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

σ_1 receptor antagonist, approximately 50-fold selective over σ_2 sites and ≥ 100 -fold selective over opioid, PCP, muscarinic, dopamine, α_1 , α_2 , β adrenoceptor, 5-HT₁ and 5-HT₂ receptors. Prevents hyperlocomotion following cocaine administration in mice.

Physical and Chemical Properties:

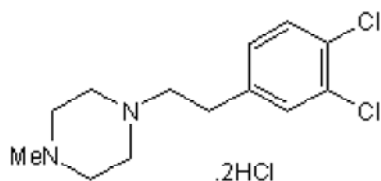
Batch Molecular Formula: C₁₃H₁₈Cl₂N₂.2HCl

Batch Molecular Weight: 346.13

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Liu *et al* (2005) Cocaine up-regulated fra-2 and σ -1 receptor gene and protein expression in brain regions involved in addiction and reward. *J.Pharmacol.Exp.Ther.* **314** 770. PMID: 15879001.

McCracken *et al* (1999) Novel σ receptor ligands attenuate the locomotor stimulatory effects of cocaine. *Eur.J.Pharmacol.* **365** 35. PMID: 9988120.

Matsumoto *et al* (1995) Characterisation of two novel σ receptor ligands: antidystonic effects in rats suggest σ receptor antagonism. *Eur.J.Pharmacol.* **280** 301. PMID: 8566098.

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