

Certificate of Analysis

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Product Name: BD 1047 dihydrobromide

Catalog No.: 0956

Batch No.: 4

CAS Number: 138356-21-5

IUPAC Name: *N*-[2-(3,4-Dichlorophenyl)ethyl]-*N*-methyl-2-(dimethylamino)ethylamine dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₂₀Cl₂N₂.2HBr

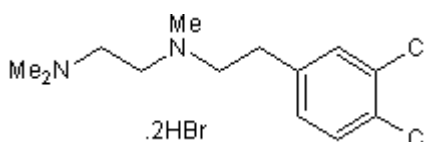
Batch Molecular Weight: 437.04

Physical Appearance: White crystals

Solubility: water to 50 mM
DMSO to 50 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Chloroform:Methanol [9:1])

HPLC: Shows >99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.73	5.07	6.41
Found	35.92	4.86	6.45

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

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Description:

σ_1 receptor antagonist, exhibiting a similar binding profile to that of BD 1063 (Cat. No. 0883) but with higher affinity (approximately 10-fold) at both σ_1 and σ_2 sites.

Physical and Chemical Properties:

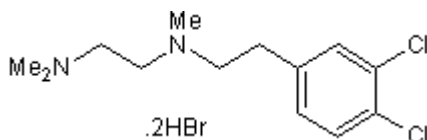
Batch Molecular Formula: C₁₃H₂₀Cl₂N₂.2HBr

Batch Molecular Weight: 437.04

Physical Appearance: White crystals

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 50 mM

DMSO to 50 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:

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.

Romieu et al (2000) Involvement of the sigma1 receptor in the cocaine-induced conditioned place preference. *Neuroreport* **11** 2885. PMID: 11006959.

Garrone et al (2000) Effects of trazodone on neurotransmitter release from rat mossy fibre cerebellar synaptosomes. *Eur.J.Pharmacol.* **400** 35. PMID: 10913582.

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