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Print Date: Jan 18th 2016

Certificate of Analysis

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Product Name: **BD 1008 dihydrobromide** **Catalog No.: 0511** **Batch No.: 2**

CAS Number: 138356-09-9

IUPAC Name: *N*-[2-(3,4-Dichlorophenyl)ethyl]-*N*-methyl-2-(1-pyrrolidinyl)ethylamine dihydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{22}Cl_2N_2.2HBr$

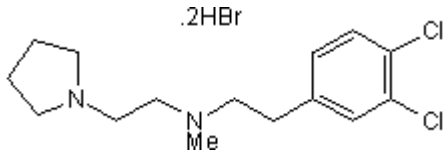
Batch Molecular Weight: 463.08

Physical Appearance: White solid

Solubility: water to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.9	5.22	6.05
Found	38.7	5.14	6.16

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Description:

Potent and selective σ-ligand (K_i against [^{3}H]-(+)-3-PPP = 0.34 nM).

Physical and Chemical Properties:

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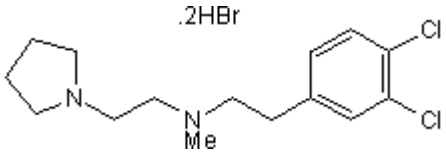

Storage: Store at -20°C

Solubility & Usage Info:

water 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:

De Costa *et al* (1992) Synthesis, characterization, and biological evaluation of a novel class of *N*-(arylethyl)-*N*-alkyl-2-(1-pyrrolidinyl) ethylamines - structural requirements and binding affinity at the σ receptor. J.Med.Chem. ***35*** 38. PMID: 1310114.

Monnet *et al* (1996) Differentiation of σ ligand-activated receptor subtypes that modulate NMDA-evoked [^{3}H]-noradrenaline release in rat hippocampal slices. Br.J.Pharmacol. ***119*** 65. PMID: 8872358.

Whittemore *et al* (1997) Antagonism of N-methyl-D-aspartate receptors by σ site ligands: potency, subtype-selectivity and mechanisms of inhibition. J.Pharmacol.Exp.Ther. ***282*** 326. PMID: 9223571.

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