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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **BGC 20-761** **Catalog No.: 3326** **Batch No.: 1**

CAS Number: 17375-63-2

IUPAC Name: 5-Methoxy-*N*,*N*-dimethyl-2-phenyl-1*H*-indole-3-ethanamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{22}N_2O.H_2O$

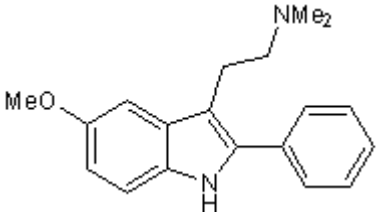
Batch Molecular Weight: 312.41

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Petroleum ether [3:17])

HPLC: Shows 98.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.05	7.74	8.97
Found	73.18	8.07	8.85

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

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CAS Number: 17375-63-2

IUPAC Name: 5-Methoxy-*N*,*N*-dimethyl-2-phenyl-1*H*-indole-3-ethanamine

Description:

Selective, high affinity 5-HT_6 antagonist (K_i = 20 nM). Reverses the amnesic effects of scopolamine (Cat. No. 1414) and enhances memory consolidation in a rat model.

Physical and Chemical Properties:

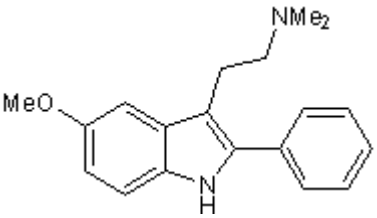
Batch Molecular Formula: $C_{19}H_{22}N_2O.H_2O$

Batch Molecular Weight: 312.41

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Glennon *et al* (2000) 2-substituted tryptamines: agents with selectivity for 5-HT_6 serotonin receptors. J.Med.Chem. ***43*** 1011. PMID: 10715164.

Mitchell *et al* (2006) BGC20-761, a novel tryptamine analog, enhances memory consolidation and reverses scopolamine-induced memory deficit in social and visuospatial memory tasks through a 5-HT6 receptor-mediated mechanism. Neuropharmacology ***50*** 412. PMID: 16298400.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956