

Product Name: SB 699551

Catalog No.: 3188

Batch No.: 2

CAS Number: 864741-95-7

IUPAC Name: *N*-[2-(Dimethylamino)ethyl]-*N*-[[4'-[[[(2-phenylethyl)amino]methyl][1,1'-biphenyl]-4-yl]methyl]cyclopentanepropanamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄H₄₅N₃O.2HCl.2½H₂O

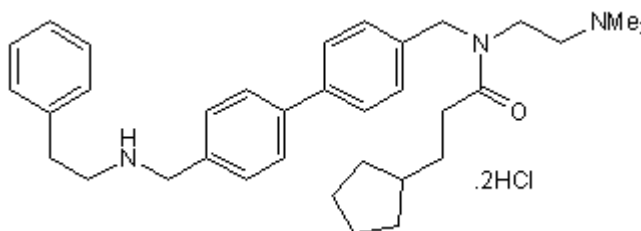
Batch Molecular Weight: 629.7

Physical Appearance: White solid

Solubility: DMSO to 25 mM
ethanol to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.85	8.32	6.67
Found	65.02	8.3	6.69

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Description:

Selective 5-ht_{5A} receptor antagonist (pK_i values are 8.3, < 6.0, < 6.0, < 6.0, < 5.5 and < 5.5 for 5-ht_{5A}, 5-HT_{1B/D}, 5-HT_{2A}, 5-HT_{2C}, 5-HT_{1A} and 5-HT₇ receptors respectively).

Physical and Chemical Properties:

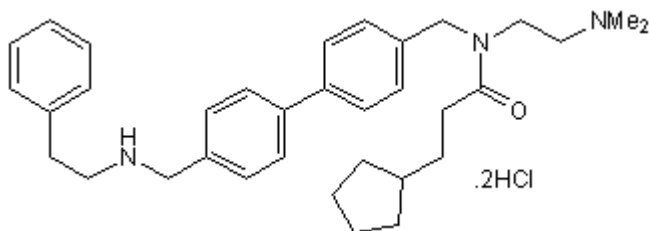
Batch Molecular Formula: C₃₄H₄₅N₃O.2HCl.2½H₂O

Batch Molecular Weight: 629.7

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 25 mM
ethanol to 10 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:

Corbett et al (2005) Discovery of a potent and selective 5-ht_{5A} receptor antagonist by high-throughput chemistry. *Bioorg.Med.Chem.letts.* **15** 4014.

Thomas et al (2006) SB-69951-A (3-cyclopentyl-*N*-[2-(dimethylamino)ethyl]-*N*-[4'-[[[(2-phenylethyl)amino]methyl]-4-biphenyl]methyl]propanamide dihydrochloride), a novel 5-ht_{5A} receptor-selective antagonist, enhances 5-HT neuronal function: evidence for an autoreceptor role for the 5-ht_{5A} receptor in guinea pig brain. *Neuropharmacology* **51** 566. PMID: 16846620.

Thomas (2006) 5-ht_{5A} receptors as a therapeutic target. *Pharmacol.Ther.* **111** 707. PMID: 16516972.

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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