

Product Name: Sibutramine hydrochloride

Catalog No.: 2290

Batch No.: 5

CAS Number: 84485-00-7

IUPAC Name: 1-(4-Chlorophenyl)-N,N-dimethyl- α -(2-methylpropyl)cyclobutanemethanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₆NCl.HCl.H₂O

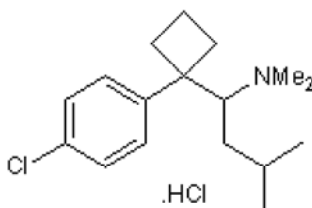
Batch Molecular Weight: 334.33

Physical Appearance: White solid

Solubility: water to 5 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.07	8.74	4.19
Found	61.21	8.55	4.21

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

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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Description:

5-HT and noradrenalin re-uptake inhibitor (SNRI). Produces weight loss in rats via inhibition of food intake and increased energy expenditure. Antidepressant.

Physical and Chemical Properties:

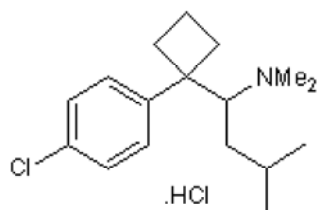
Batch Molecular Formula: C₁₇H₂₆NCl.HCl.H₂O

Batch Molecular Weight: 334.33

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 5 mM

DMSO 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:

Gundlah et al (1997) *In vivo* criteria to differentiate monoamine reuptake inhibitors from releasing agents: sibutr. is a reuptake inhibitor. *J.Pharmacol.Exp.Ther.* **283** 581. PMID: 9353373.

Jackson et al (1997) Comparison of the effects of sibutr. and other monoamine reuptake inhibitors on food intake in the rat. *Br.J.Pharmacol.* **121** 1758. PMID: 9283714.

Bucketts et al (1988) The pharmacology of sibutr. hydrochloride (BTS 54524), a new antidepressant which induces rapid noradrenergic down-regulation. *Prog.Neuro-Psychopharm.Biol.Psychiat.* **12** 575.

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