

Certificate of Analysis

www.tocris.com

Product Name: Sipatrigine

Catalog No.: 4044

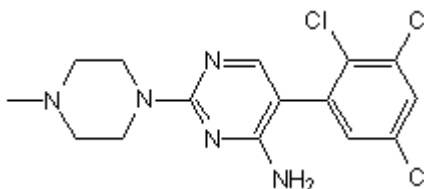
Batch No.: 1

CAS Number: 130800-90-7

IUPAC Name: 2-(4-Methyl-1-piperazinyl)-5-(2,3,5-trichlorophenyl)-4-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₆Cl₃N₅
Batch Molecular Weight: 372.68
Physical Appearance: Cream solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.34	4.33	18.79
Found	48.39	4.31	18.79

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

Product Name: Sipatrigine

Catalog No.: 4044

Batch No.: 1

CAS Number: 130800-90-7

IUPAC Name: 2-(4-Methyl-1-piperazinyl)-5-(2,3,5-trichlorophenyl)-4-pyrimidinamine

Description:

Blocker of voltage-dependent sodium channels (Na_v). Inhibits glutamate release; displays neuroprotective activity in rat models of cerebral ischemia. Also thought to block Ca^{2+} channels. Analog of lamotrigine (Cat. No. 1611).

Physical and Chemical Properties:

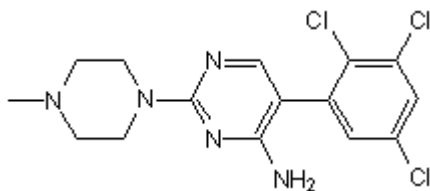
Batch Molecular Formula: $C_{15}H_{16}Cl_3N_5$

Batch Molecular Weight: 372.68

Physical Appearance: Cream solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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:

Leach et al (1993) BW619C89, a glutamate release inhibitor, protects against focal cerebral ischemic damage. *Stroke* **24** 1063. PMID: 8100654.

Graham et al (1994) Neuroprotective effects of a use-dependent blocker of voltage-dependent sodium channels, BW619C89, in rat middle cerebral artery occlusion. *J.Pharmacol.Exp.Ther.* **269** 854. PMID: 7910213.

Stefani et al (1998) On the inhibition of voltage activated calcium currents in rat cortical neurones by the neuroprotective agent 619C89. *Br.J.Pharmacol.* **125** 1058. PMID: 9846645.

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