

Certificate of Analysis

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Product Name: SB 657510

Catalog No.: 3571

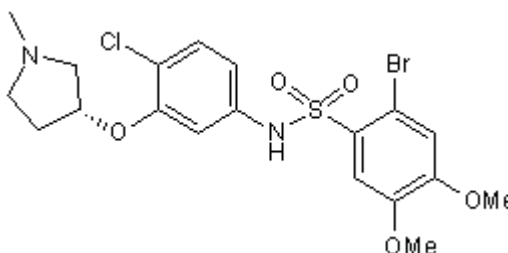
Batch No.: 2

CAS Number: 474960-44-6

IUPAC Name: 2-Bromo-N-[4-chloro-3-[[[(3*R*)-1-methyl-3-pyrrolidinyl]oxy]phenyl]-4,5-dimethoxybenzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₂ BrClN ₂ O ₅ S
Batch Molecular Weight:	505.81
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.29 (Chloroform:Methanol [9:1])
HPLC:	Shows 99.3% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	
	Carbon Hydrogen Nitrogen
	Theoretical 45.12 4.38 5.54
	Found 45.18 4.38 5.61

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

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Description:

Selective urotensin-II (UT) receptor antagonist (K_i values are 61, 17, 30, 65 and 56 nM at human, monkey, cat, rat and mouse receptors respectively). Inhibits U-II-induced intracellular Ca^{2+} mobilization (IC_{50} = 180 nM) and antagonizes the contractile action of U-II in isolated mammalian arteries and aortae (EC_{50} = 50 - 189 nM).

Physical and Chemical Properties:

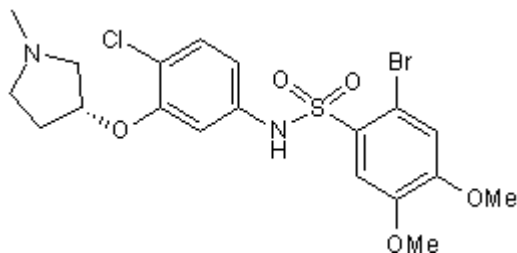
Batch Molecular Formula: $C_{19}H_{22}BrClN_2O_5S$

Batch Molecular Weight: 505.81

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

Douglas et al (2005) Nonpeptide urotensin-II receptor antagonists I: in vitro pharmacological characterization of SB-706375. *Br.J.Pharmacol.* **145** 620. PMID: 15852036.

Behm et al (2008) Palosuran inhibits binding to primate UT receptors in cell membranes but demonstrates differential activity in intact cells and vascular tissues. *Br.J.Pharmacol.* **155** 374. PMID: 18587423.

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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