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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **SB 706375** **Catalog No.: 4667** **Batch No.: 1**

CAS Number: 733734-61-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{22}BrF_3N_2O_5S$

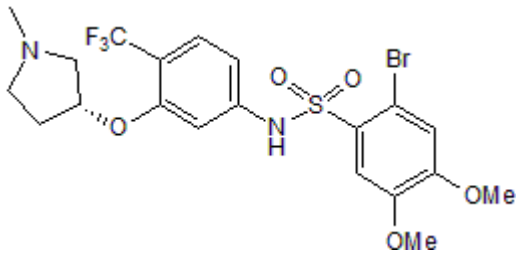
Batch Molecular Weight: 539.36

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 98.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.54	4.11	5.19
Found	44.51	4.21	5.11

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Description:

High affinity, non-peptide antagonist of the urotensin-II (UT) receptor. Exhibits high affinity for mammalian UT receptors, including human, mouse and rat (K_i values are 9.3, 19.1 and 20.7 nM respectively, in HEK293 cells expressing recombinant UT receptors). Also inhibits binding of radiolabeled urotensin to endogenous human UT receptors (K_i = 5.4 nM in a whole-cell binding assay). Displays ≥100-fold selectivity for the human UT receptor over 86 different receptors, ion channels, enzymes, transporters and nuclear hormones.

Physical and Chemical Properties:

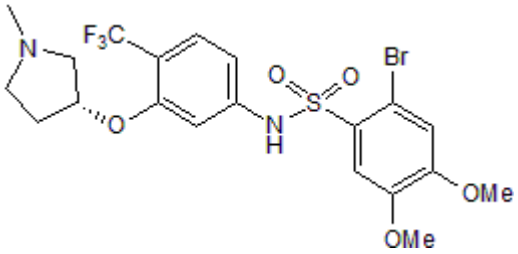
Batch Molecular Formula: $C_{20}H_{22}BrF_3N_2O_5S$

Batch Molecular Weight: 539.36

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) Nonpeptidic urotensin-II receptor antagonists I: *in vitro* pharmacological characterization of SB-706375. Br.J.Pharmacol. ***145*** 620. PMID: 15852036.