TOCRIS
a bio-techne brand

Print Date: Jan 8th 2016

Certificate of Analysis

www.tocris.com

Product Name: **SB 269970 hydrochloride** **Catalog No.: 1612** **Batch No.: 4**

CAS Number: 261901-57-9

IUPAC Name: (2*R*)-1-[(3-Hydroxyphenyl)sulfonyl]-2-[2-(4-methyl-1-piperidinyl)ethyl]pyrrolidine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{28}N_2O_3S.HCl$

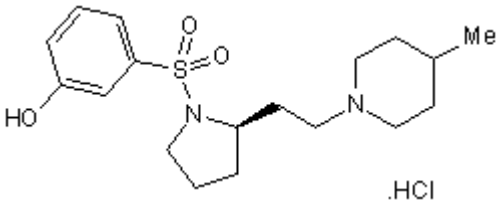
Batch Molecular Weight: 388.95

Physical Appearance: Off-white solid

Solubility: water to 20 mM
phosphate buffered saline to 5 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 200 - 205°C

HPLC: Shows >98.9% purity

^{1}H NMR: Consistent with structure

Optical Rotation: $[\alpha]_D$ = +81 (Concentration = 0.5, Solvent = DMSO)

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

Product Name: **SB 269970 hydrochloride** **Catalog No.: 1612** **Batch No.: 4**

CAS Number: 261901-57-9

IUPAC Name: (2*R*)-1-[(3-Hydroxyphenyl)sulfonyl]-2-[2-(4-methyl-1-piperidinyl)ethyl]pyrrolidine hydrochloride

Description:

Potent and selective 5-HT_7 receptor antagonist (pK_i values are 8.9, 7.2 and 6.0 for 5-HT_{7A}, 5-HT_{5A} and 5-HT_{1B} and < 6.0 for 5-HT_{1A}, 5-HT_{1D}, 5-HT_{1E}, 5-HT_{1F}, 5-HT_{2A}, 5-HT_{2B}, 5-HT_{2C}, 5-HT_4 and 5-HT_6 receptors respectively). Brain penetrant in vivo.

Physical and Chemical Properties:

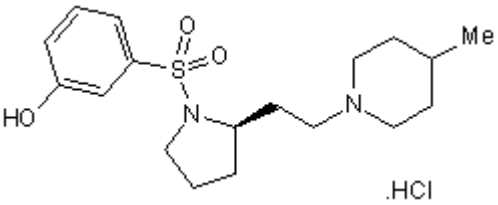
Batch Molecular Formula: $C_{18}H_{28}N_2O_3S.HCl$

Batch Molecular Weight: 388.95

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 20 mM
phosphate buffered saline 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:

Hagan *et al* (2000) Characterization of SB-269970-A, a selective 5-HT_7 receptor antagonist. Br.J.Pharmacol. ***130*** 539. PMID: 10821781.

Lovell *et al* (2000) A novel, potent, and selective 5-HT_7 antagonist: (*R*)-3-(2-(2-(4-methylpiperidin-1-yl)-ethyl)pyrrolidine-1-sulfonyl) phenol (SB-269970) J.Med.Chem. ***43*** 342. PMID: 10669560.

Kogan *et al* (2002) DR4004, a putative 5-HT_7 receptor antagonist, also has functional activity at the dopamine receptor. Eur.J.Pharmacol. ***449*** 105. PMID: 12163113.