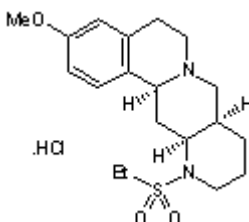


Certificate of Analysis

Product Name: RS 79948 hydrochloride **Catalog No.:** 0987 **Batch No.:** 2
CAS Number: 186002-54-0
IUPAC Name: (8a*R*,12a*S*,13a*S*)-5,8,8a,9,10,11,12,12a,13,13a-dehydro-3-methoxy-12-(ethylsulfonyl)-6*H*-isoquino[2,1-*g*][1,6]naphthyridine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₈N₂O₃S.HCl.½H₂O
Batch Molecular Weight: 409.97
Physical Appearance: White solid
Solubility: water to 25 mM
DMSO to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.47 (Chloroform:Methanol:Ammonia soln. [95:4.5:0.5])
HPLC: Shows 99.5% purity
Chiral HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +19.5 (Concentration = 0.4, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.66	7.38	6.83
Found	55.78	7.27	6.87

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Description:

α_2 -adrenoreceptor antagonist (K_d values are; 0.18, 0.19 and 0.42 nM for α_{2B} , α_{2C} and α_{2A} , respectively in rat).

Physical and Chemical Properties:

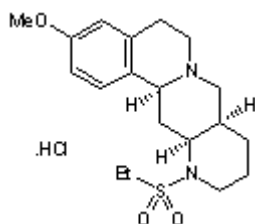
Batch Molecular Formula: C₁₉H₂₈N₂O₃S.HCl.½H₂O

Batch Molecular Weight: 409.97

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 mM

DMSO to 50 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:

Clark et al (1989) (8a α ,12a α ,13a α)-5,8,8a,9,10,11,12,12a,13,13a-Decahydro-3-methoxy-12-(ethylsulphonyl)-6*H*-isoquino[2,1-*g*][1,6]-naphthyridine, a potent and highly selective α_2 -adrenoceptor antagonist. *J. Med. Chem.* **32** 2034. PMID: 2570150.

Hume et al (1996) Evaluation in rat of RS-79948-197 as a potential PET ligand for central α_2 -adrenoceptors. *Eur.J.Pharmacol.* **317** 67. PMID: 8982721.

Uhlen et al (1998) [³H]RS79948-197 binding to rat, guinea pig and pig α_{2A} , α_{2B} and α_{2C} -adrenoceptors. Comparison with MK912, RX821002, rauwolscine and yohimbine. *Eur.J.Pharmacol.* **343** 93. PMID: 9551719.

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