



Certificate of Analysis

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Product Name: R 1485 dihydrochloride Catalog No.: 4964 Batch No.: 1

IUPAC Name: 4-[(2-Fluorophenyl)sulfonyl]-3,4-dihydro-8-(1-piperazinyl)-2*H*-1,4-benzoxazine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{20}FN_3O_3S.2HCI.14H_2O$

Batch Molecular Weight: 454.85 **Physical Appearance:** White solid

Solubility: water to 100 mM DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 47.53 4.99 9.24 Found 47.49 5.04 9.17



Product Information

Print Date: Jan 14th 2016

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Description:

Selective and high affinity 5-HT₆ antagonist (pK_i = 8.9); displays low hERG inhibition. Exhibits >100 fold selectivity against a panel of 50 targets including other 5-HT receptor subtypes. Brain penetrant.

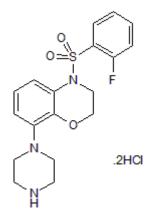
Physical and Chemical Properties:

Batch Molecular Formula: C₁₈H₂₀FN₃O₃S.2HCl.½H₂O

Batch Molecular Weight: 454.85 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 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:

Zhao et al (2007) 3,4-Dihydro-2H-benzo[1,4]oxazine derivatives as 5-HT₆ receptor antagonists. Bioorg.Med.Chem.Lett. 17 3504. PMID: 17485206.

Liu et al (2009) 5-HT₆ antagonists as potential treatment for cognitive dysfunction. Drug Des.Rev. 70 145.

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