

Certificate of Analysis

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Print Date: Jan 14th 2016

Product Name: S 32212 hydrochloride Catalog No.: 4508 Batch No.: 1

CAS Number: 847871-78-7

IUPAC Name: 1,2-Dihydro-*N*-[4-methoxy-3-(4-methyl-1-piperazinyl)phenyl]-3*H*-benz[e]indole-3-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{28}N_4O_2.HCl.\frac{1}{4}H_2O_3$

Batch Molecular Weight: 457.48 **Physical Appearance:** Pink solid

Solubility: water to 25 mM

DMSO to 25 mM

Storage: Desiccate at RT

Batch Molecular Structure:

.HCI

2. ANALYTICAL DATA

TLC: $R_f = 0.38$ (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen Chlorine

Theoretical 65.64 6.5 12.25 7.75 Found 65.44 6.38 12.24 8.03



Product Information

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IUPAC Name: 1,2-Dihydro-N-[4-methoxy-3-(4-methyl-1-piperazinyl)phenyl]-3H-benz[e]indole-3-carboxamide hydrochloride

Description:

Inverse agonist of 5-HT_{2C} receptors (pK_i = 8.18 at human 5-HT_{2C} INI receptors). Also an antagonist of human α_2 -adrenoceptors. Displays negligible affinity for α_{1A} -adrenoceptors, histamine H_1 receptors and muscarinic M₁ receptors.

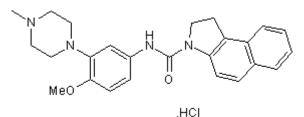
Physical and Chemical Properties:

Batch Molecular Formula: $C_{25}H_{28}N_4O_2$.HCl. $\frac{1}{4}H_2O$

Batch Molecular Weight: 457.48 Physical Appearance: Pink solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 mM DMSO to 25 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).

Catalog No.: 4508

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:

Millan et al (2012) S32212, a novel serotonin type 2C receptor inverse agonist/ α_2 -adrenoceptor antagonist and potential antidepressant: I. A mechanistic characterization. J.Pharmacol.Exp.Ther. 340 750. PMID: 22178752.

Dekeyne et al (2012) S32212, a novel serotonin type 2C receptor inverse agonist/ α_2 -adrenoceptor antagonist and potential antidepressant: II. A behavioral, neurochemical, and electrophysiological characterization. J.Pharmacol.Exp.Ther. 340 765. PMID: 22178753.