

Certificate of Analysis

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Product Name: WAY 161503 hydrochloride

Catalog No.: 1801

Batch No.: 3

CAS Number: 276695-22-8

IUPAC Name: 8,9-Dichloro-2,3,4,4a-tetrahydro-1*H*-pyrazino[1,2-*a*]quinoxalin-5(6*H*)-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₁Cl₂N₃O.HCl

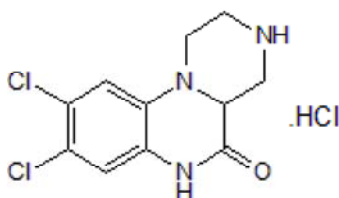
Batch Molecular Weight: 308.59

Physical Appearance: White solid

Solubility: DMSO to 30 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.44 (Ethyl acetate:Methanol:NH₄OH [90:5:5])

HPLC: Shows >99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.81	3.92	13.62
Found	42.75	3.97	13.53

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Description:

WAY 161503 hydrochloride is a potent and selective 5-HT_{2C} receptor agonist ($K_i = 4$ nM; $EC_{50} = 12$ nM). Shows approximately 2-fold selectivity for 5HT_{2C} over 5HT_{2A} in HEK293 cell lines ($EC_{50} = 7.3$ nM and 12 nM, respectively). Antidepressant following systemic administration in vivo.

Physical and Chemical Properties:

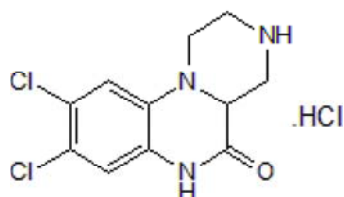
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Batch Molecular Weight: 308.59

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 30 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:

Jensen et al (2013) Design, synthesis, and pharmacological characterization of N- and O-substituted 5,6,7,8-tetrahydro-4H-isoxazolo [4,5-d]azepin-3-ol analogues: novel 5-HT_{2A}/5-HT_{2C} receptor agonists with pro-cognitive J.Med.Chem. **56** 1211. PMID: 23301527.

Cryan and Lucki (2000) Antidepressant-like behavioral effects mediated by 5-hydroxytryptamine_{2C} receptors. J.Pharmacol.Exp.Ther. **295** 1120. PMID: 11082448.

Welmaker et al (2000) Synthesis and 5-hydroxytryptamine (5-HT) activity of 2,3,4,4a-tetrahydro-1H-pyrazino[1,2-a]quinoxalin-5-(6H) ones and 2,3,4,4a,5,6-hexahydro-1H-pyrazino[1,2-a]quinoxalines. Bioorg.Med.Chem.Lett. **10** 1991. PMID: 10987434.

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