Print Date: Aug 17th 2021

Certificate of Analysis

www.tocris.com

Product Name: **WAY 161503 hydrochloride** **Catalog No.: 1801** **Batch No.: 2**

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: $C_{11}H_{11}Cl_2N_3O.HCl$

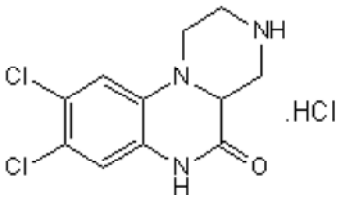
Batch Molecular Weight: 308.59

Physical Appearance: White crystalline solid

Solubility: DMSO to 30 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (Ethyl acetate:Methanol:Ammonia soln. [18:1:1])

Melting Point: Between 306 - 309°C

HPLC: Shows >99.9% purity

^{1}H NMR: Consistent with structure

^{13}C NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.81	3.92	13.62
Found	42.47	3.86	13.51

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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 Information

Product Name: **WAY 161503 hydrochloride** **Catalog No.: 1801** **Batch No.: 2**

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

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:

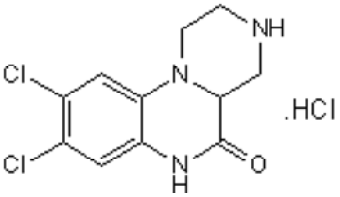
Batch Molecular Formula: $C_{11}H_{11}Cl_2N_3O.HCl$

Batch Molecular Weight: 308.59

Physical Appearance: White crystalline 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-HT2A/5-HT2C 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-1*H*-pyrazino[1,2-a]quinoxalin-5-(6*H*) ones and 2,3,4,4a,5,6-hexahydro-1*H*-pyrazino[1,2-*a*]quinoxalines. Bioorg.Med.Chem.Lett. ***10*** 1991. PMID: 10987434.

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