

Product Name: WAY 181187 oxalate

Catalog No.: 5589

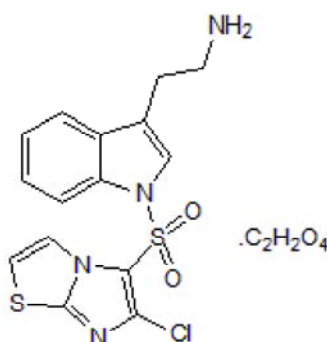
Batch No.: 3

CAS Number: 1883548-85-3

IUPAC Name: 1-[(6-Chloroimidazo[2,1-b]thiazol-5-yl)sulfonyl]-1*H*-indole-3-ethanamine oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₃ClN₄O₂S₂.C₂H₂O₄.½H₂O
Batch Molecular Weight: 479.92
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.16 (DCM:MeOH 9:1 (4 drops of NH₄OH))
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.55	3.36	11.67
Found	42.36	3.46	11.6

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

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Description:

High affinity and selective 5-HT₆ agonist (K_i = 2.2 nM). Displays 60-fold selectivity over other 5-HT and monoamine receptors. Increases firing rate of 5-HT neurons. Modifies sleep and wakefulness profiles following direct injections into the dorsal raphe nucleus, in vivo. Orally bioavailable.

Physical and Chemical Properties:

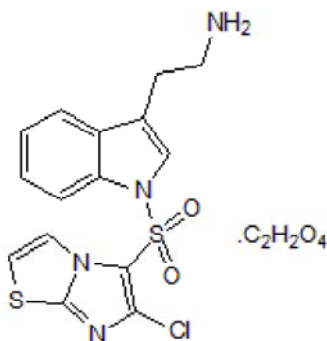
Batch Molecular Formula: C₁₅H₁₃ClN₄O₂S₂·C₂H₂O₄·½H₂O

Batch Molecular Weight: 479.92

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc

References:

Brouard et al (2015) Pharmacological evidence for 5-HT₆ receptor modulation of 5-HT neuron firing *in Vivo*. ACS Chem.Neurosci. **6** 1241. PMID: 25837696.

Cole et al (2007) Discovery of N1-(6-chloroimidazo[2,1-b][1,3]thiazole-5-sulfonyl)tryptamine as a potent, selective, and orally active 5-HT₆ receptor agonist. J.Med.Chem. **50** 5535. PMID: 17948978.

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