

Certificate of Analysis

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Product Name: WWL 123

Catalog No.: 5317

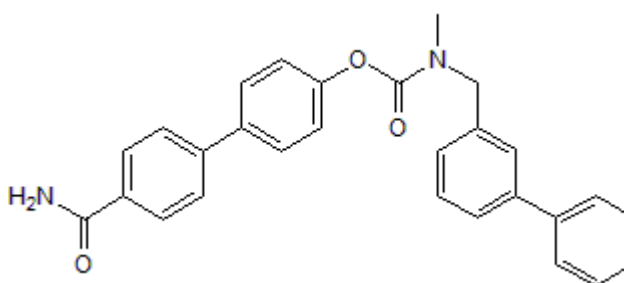
Batch No.: 1

CAS Number: 1338574-83-6

IUPAC Name: *N*-[[1,1'-Biphenyl]-3-ylmethyl)-*N*-methylcarbamic acid 4'-(aminocarbonyl)[1,1'-biphenyl]-4-yl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₂₄N₂O₃
Batch Molecular Weight: 436.5
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (Chloroform:Methanol [9:1])
HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	77.04	5.54	6.42
Found	77.37	5.58	6.24

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

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Description:

α/β -hydrolase domain 6 (ABHD6) inhibitor (IC_{50} = 0.43 μ M). Blocks PTZ-induced seizures in healthy mice and spontaneous seizures in R6/2 mice. Antiepileptic activity is independent of CB₁ and CB₂ receptors, but is GABA_A receptor dependent. Brain penetrant.

Physical and Chemical Properties:

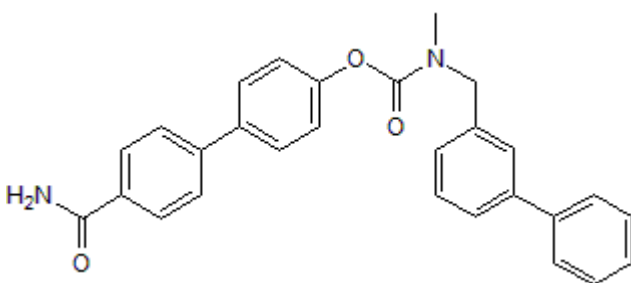
Batch Molecular Formula: C₂₈H₂₄N₂O₃

Batch Molecular Weight: 436.5

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Naydenov et al (2014) ABHD6 blockade exerts antiepileptic activity in PTZ-induced seizures and in spontaneous seizures in R6/2 mice. *Neuron* **83** 361. PMID: 25033180 .

Storage: Store at -20°C

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.

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