

Product Name: GW 542573X

Catalog No.: 4311

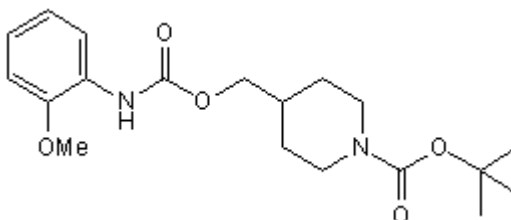
Batch No.: 1

CAS Number: 660846-41-3

IUPAC Name: 4-[[[(2-Methoxyphenyl)amino]carbonyl]oxy]methyl]-piperidinecarboxylic acid-1,1-dimethylethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₈N₂O₅
Batch Molecular Weight: 364.44
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 62.62 | 7.74 | 7.69 |
| Found | 62.75 | 7.68 | 7.71 |

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

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Description:

Activator of small-conductance Ca²⁺-activated K⁺ channels (K_{Ca2}); selective for K_{Ca2.1} (EC₅₀ = 8.2 μM in HEK293 cells expressing hK_{Ca2.1}) with the profile hK_{Ca2.1} > hK_{Ca2.2} = hK_{Ca2.3} > hK_{Ca3.1} (IK).

Physical and Chemical Properties:

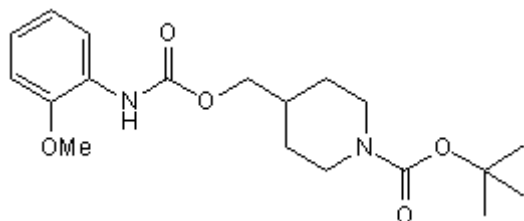
Batch Molecular Formula: C₁₉H₂₈N₂O₅

Batch Molecular Weight: 364.44

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Hougaard et al (2009) Selective activation of the SK1 subtype of human small-conductance Ca²⁺-activated K⁺ channels by 4-(2-methoxy-phenylcarbamoyloxymethyl)-piperidine-1-carboxylic acid *tert*-butyl ester (GW542573X) is dependent on serine 298 in the S5 segment. *Mol.Pharmacol.* **76** 569. PMID: 19515965.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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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