

Certificate of Analysis

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Product Name: A 887826

Catalog No.: 4249

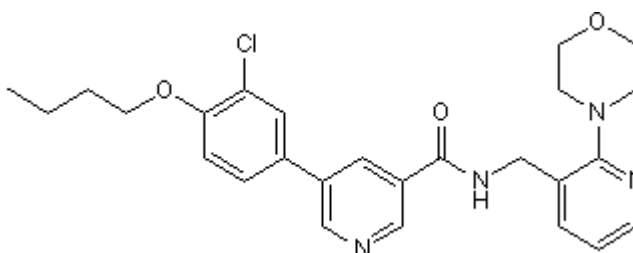
Batch No.: 1

CAS Number: 1266212-81-0

IUPAC Name: 5-(4-Butoxy-3-chlorophenyl)-*N*-[[2-(4-morpholinyl)-3-pyridinyl]methyl-3-pyridine carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₉ClN₄O₃
Batch Molecular Weight: 480.99
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.93	6.08	11.65
Found	65.02	6.11	11.78

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

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Description:

Potent voltage-dependent Na_v1.8 channel blocker (IC₅₀ = 11 nM in recombinant human Na_v1.8 channels). Reduces tactile allodynia in neuropathic rat models. 3- and 28-fold more potent at Na_v1.8 channels compared to Na_v1.2 and Na_v1.7 channels respectively.

Physical and Chemical Properties:

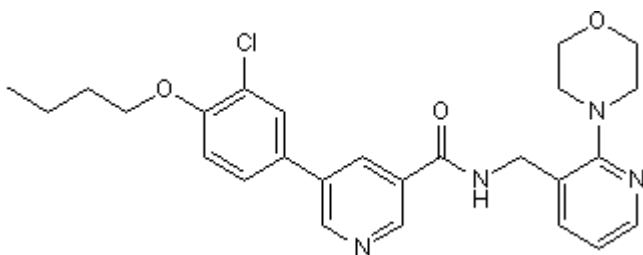
Batch Molecular Formula: C₂₆H₂₉ClN₄O₃

Batch Molecular Weight: 480.99

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



References:

Zhang et al (2010) A-887826 is a structurally novel, potent and voltage-dependent Na_v1.8 sodium channel blocker that attenuates neuropathic tactile allodynia in rats. *Neuropharmacology* **59** 201. PMID: 20566409.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 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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