

Product Name: NS 383

Catalog No.: 5927

Batch No.: 1

CAS Number: 309711-59-9

IUPAC Name: 8-Ethyl-6,7,8,9-tetrahydro-5-phenyl-1*H*-pyrrolo[3,2-*h*]isoquinoline-2,3-dione-3-oxime

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₉N₃O₂·½H₂O

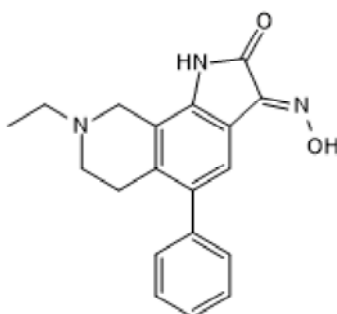
Batch Molecular Weight: 330.38

Physical Appearance: Brown solid

Solubility: DMSO to 5 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 69.07 | 6.1 | 12.72 |
| Found | 69.03 | 5.83 | 12.83 |

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

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Description:

ASIC blocker (IC₅₀ values are 0.44, 2.1 μM and no effect at rat ASIC1a, ASIC3 and ASIC2a, respectively; IC₅₀ value = 0.12 μM at human ASIC1a with no effect at ASIC2a or ASIC3). Inhibition was also observed at heteromeric ASIC channels (IC₅₀ values are 0.79, 0.87 and 4.5 μM at rat ASIC1a+3, ASIC1a+2a and ASIC2a+3; IC₅₀ values are 0.33 and 0.69 μM at human ASIC1a+2a and ASIC1a+3, with no effect at ASIC2a+3). Attenuates pathophysiological nociceptive behaviors in CFA-inflamed and CCI rats.

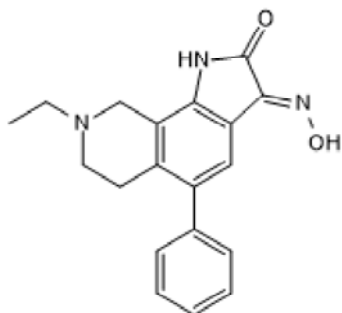
Physical and Chemical Properties:

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References:

Munro *et al* (2016) NS383 Selectively inhibits acid-sensing ion channels containing 1a and 3 subunits to reverse inflammatory and neuropathic hyperalgesia in rats. *CNS Neurosci. Ther.* **22** 135. PMID: 26663905.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 5 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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