

Product Name: STOCK2S 26016

Catalog No.: 5570

Batch No.: 1

CAS Number: 332922-63-1

IUPAC Name: 7-Ethoxy-*N*³-(2-furanylmethyl)-3,9-acridinediamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₉N₃O₂·¼H₂O

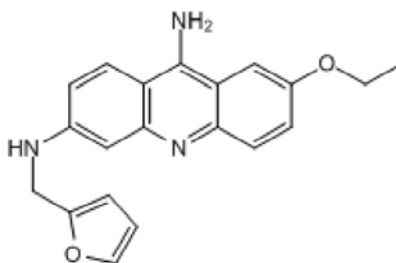
Batch Molecular Weight: 337.88

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (10% (7M ammonia in MeOH)/DCM)

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 71.09 | 5.82 | 12.44 |
| Found | 71.41 | 5.53 | 12.52 |

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

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Description:

STOCK2S 26016 is a lysine deficient protein kinase (WNK) signaling inhibitor ($IC_{50} = 16 \mu M$). Inhibits binding of WNK1 and WNK4 to SPAK and phosphorylation of downstream transporters, NKCC1 and NCC, in mouse vascular smooth muscle and distal convoluted tubule cell cultures exposed to hypotonic shock, respectively.

Physical and Chemical Properties:

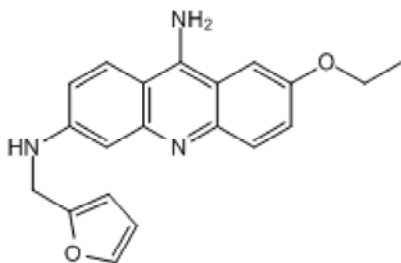
Batch Molecular Formula: $C_{20}H_{19}N_3O_2 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 337.88

Physical Appearance: Yellow solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Mori *et al* (2013) Chemical library screening for WNK signalling inhibitors using fluorescence correlation spectroscopy. *Biochem.J.* **455** 339. PMID: 23981180.

Storage: Store at $-20^{\circ}C$

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 100 mM

ethanol 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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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