

**Product Name:** STOCK2S 26016

**Catalog No.:** 5570

**Batch No.:** 1

CAS Number: 332922-63-1

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>·¼H<sub>2</sub>O

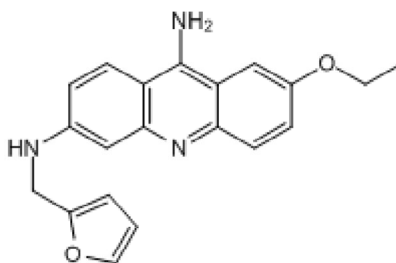
**Batch Molecular Weight:** 337.88

**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<sub>f</sub> = 0.29 (10% (7M ammonia in MeOH)/DCM)

**HPLC:** Shows 98.7% purity

**<sup>1</sup>H 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<sub>50</sub> = 16 μM). 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. Inhibits STK39 activation; inhibits migration and invasion of cancer cells in vitro.

**Physical and Chemical Properties:**

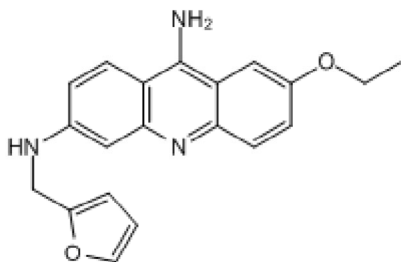
Batch Molecular Formula: C<sub>20</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 337.88

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Qiu et al** (2021) STK39 promotes breast cancer invasion and metastasis by increasing SNAI1 activity upon phosphorylation. *Theranostics* **11** 7658. PMID: 34335956.

**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°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°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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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