

**Product Name:** PPQ 102

**Catalog No.:** 4303

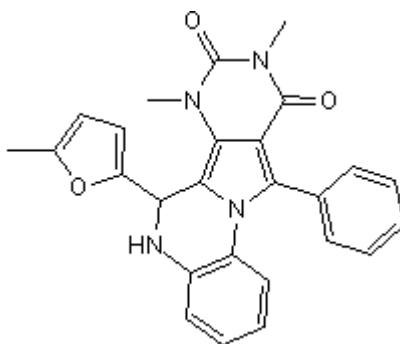
**Batch No.:** 1

CAS Number: 931706-15-9

IUPAC Name: 6,7-Dihydro-7,9-dimethyl-6-(5-methyl-2-furanyl)-11-phenylpyrimido[4',5':3,4]pyrrolo[1,2-a]quinoxaline-8,10(5H,9)-dione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_{26}H_{22}N_4O_3 \cdot \frac{1}{2}H_2O$   
**Batch Molecular Weight:** 442.98  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	70.5	5.12	12.65
Found	70.81	5.11	12.73

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

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**Description:**

Potent, voltage-independent CFTR chloride channel inhibitor (IC<sub>50</sub> = 90 nM). Reduces the size and number of renal cysts in an embryonic kidney culture model of polycystic kidney disease. Also increases VEGF-A production from airway epithelial cells in vitro.

**Physical and Chemical Properties:**

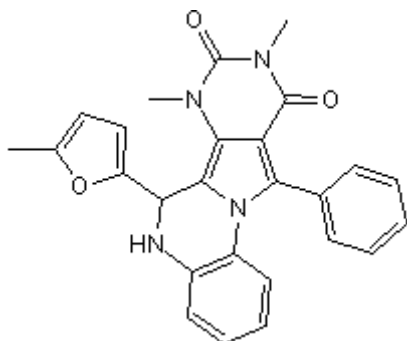
Batch Molecular Formula: C<sub>26</sub>H<sub>22</sub>N<sub>4</sub>O<sub>3</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 442.98

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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 20 mM with gentle warming

**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.

**References:**

**Tradtrantip et al** (2009) Nanomolar potency pyrimido-pyrrolo-quinoxalinedione CFTR inhibitor reduces cyst size in a polycystic kidney disease model. *J.Med.Chem.* **52** 6447. PMID: 19785436.

**Martin et al** (2013) CFTR dysfunction induces vascular endothelial growth factor synthesis in airway epithelium. *Eur.Resp.J.* **42** 1553. PMID: 23520314.

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