

**Product Name:** CU CPT 9a

**Catalog No.:** 6479

**Batch No.:** 1

CAS Number: 2165340-32-7

IUPAC Name: 2-Methyl-4-(7-methoxy-4-quinolinyl)phenol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>15</sub>NO<sub>2</sub>·¼H<sub>2</sub>O

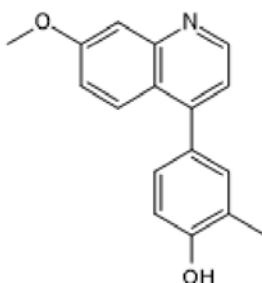
**Batch Molecular Weight:** 269.81

**Physical Appearance:** Beige solid

**Solubility:** DMSO to 100 mM  
ethanol to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.25 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 99.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	75.68	5.79	5.19
Found	75.69	5.76	4.87

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

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**Description:**

Potent TLR8 inhibitor ( $IC_{50} = 0.5$  nM and  $K_d = 21$  nM). Stabilizes the TLR8 dimer in its resting state, preventing activation. Suppresses TLR8-mediated proinflammatory signaling in various cell lines and human primary cells.

**Physical and Chemical Properties:**

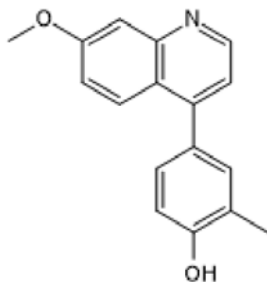
Batch Molecular Formula:  $C_{17}H_{15}NO_2 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 269.81

Physical Appearance: Beige solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 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.

**Licensing Information:**

Sold under license from the University of Colorado

**References:**

Zhang *et al* (2018) Small-molecule inhibition of TLR8 through stabilization of its resting state. *Nat.Chem.Biol.* **14** 58. PMID: 29155428.

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