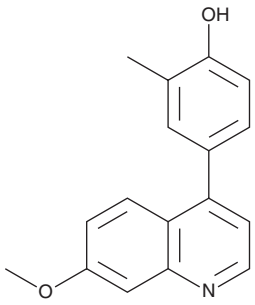
PRODUCT INFORMATION

CU-CPT9a

Item No. 28722

CAS Registry No.:	2165340-32-7
Formal Name:	4-(7-methoxy-4-quinolinyl)-2-methyl-phenol
MF:	$C_{17}H_{15}NO_2$
FW:	265.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 238, 316 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CU-CPT9a is supplied as a crystalline solid. A stock solution may be made by dissolving the CU-CPT9a in the solvent of choice, which should be purged with an inert gas. CU-CPT9a is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CU-CPT9a in these solvents is approximately 5, 10, and 30 mg/ml, respectively.

CU-CPT9a is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CU-CPT9a should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CU-CPT9a has a solubility of approximately 0.1 mg/ml in a 1:9 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CU-CPT9a is an antagonist of toll-like receptor 8 (TLR8).[1] It inhibits activation of NF-κB induced by the TLR8 agonist R-848 (Item No. 14806) in TLR8-overexpressing HEK-Blue cells (IC_{50} = 0.5 nM). CU-CPT9a reverses R-848-induced increases in NF-κB p65, IRAK-4, and TRAF3 protein levels in HEK-Blue cells.

Reference

1. Zhang, S., Hu, Z., Tanji, H., *et al.* Small-molecule inhibition of TLR8 through stabilization of its resting state. *Nat. Chem. Biol.* **14(1)**, 58-64 (2018).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM