

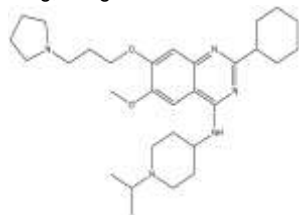
## UNC0638

**ALTERNATE NAME:** 2-Cyclohexyl-6-methoxy-N-[1-(1-methylethyl)-4-piperidinyl]-7-[3-(1-pyrrolidinyl)propoxy]-4-quinazolinamine

**CATALOG #:** 1933-1, 5

**AMOUNT:** 1 mg, 5 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>30</sub>H<sub>47</sub>N<sub>5</sub>O<sub>2</sub>

**MOLECULAR WEIGHT:** 509.72

**CAS NUMBER:** 1255580-76-7

**APPEARANCE:** Off-white solid

**SOLUBILITY:** DMSO (10 mM)

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20 °C. Protect from light

**DESCRIPTION:** Cell-permeable. UNC0638 is a potent G9a HMTase inhibitor, exhibiting an IC<sub>50</sub> value of <15 nM in vitro. UNC0638 also inhibits GLP, a closely-related H3K9 HMTase, with an IC<sub>50</sub> value of 19 nM, but is more than 10,000-fold selective against SET7/9 (a H3K4 HMTase), SET8 (a H4K20 HMTase), PRMT3, and SUV39H2. UNC0638 inhibits H3K9 dimethylation in MDA-MB231 cells with an IC<sub>50</sub> value of 81 nM and demonstrates favorable separation of functional and toxic effect.

**REFERENCE:** Vedadi, M., *et al.* (2011). *Nature Chem. Biol.* **7**, 566-574.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

**RELATED PRODUCTS:**

- AMI-1 (Cat. No. 1943-5, 25)
- 5-Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)
- BIX01294 (Cat. No. 1678-5, 25)
- RG108 (Cat. No. 1679-10, 30)