

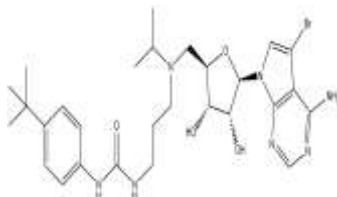
## PRODUCT: SGC0946

**ALTERNATE NAME:** 1-[3-[[[(2*R*,3*S*,4*R*,5*R*)-5-(4-Amino-5-bromo-7*H*-pyrrolo[2,3-*d*]pyrimidin-7-yl)-3,4-dihydroxytetrahydrofuran-2-yl]methyl](isopropyl)amino]propyl]-3-[4-(2,2-dimethylethyl)phenyl]urea

**CATALOG #:** 2448-5, 25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>28</sub>H<sub>40</sub>BrN<sub>7</sub>O<sub>4</sub>

**MOLECULAR WEIGHT:** 618.57

**CAS#:** 1561178-17-3

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (> 50 mg/ml) or EtOH (>50 mg/ml)

**PURITY:** >98% by HPLC

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

**DESCRIPTION:** A potent and selective DOT1L inhibitor (IC<sub>50</sub> = 0.3 nM in a radioactive enzyme assay); >100-fold selective for other histone methyltransferases (HMTs). SGC0946 also potently reduces H3K79 dimethylation with cellular IC<sub>50</sub> of 2.6 nM in A431 cells, and 8.8 nM in MCF10A cells.

**REFERENCE:** Yu, W., *et al.* (2013). *Bioorg. Med. Chem.* **21**, 1787-1794; Yu, W., *et al.* (2012). *Nat. Commun.* **3**, 1288

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

### RELATED PRODUCTS:

AMI-1 (Cat. No. 1943-5, 25)  
 Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)  
 5- BIX01294 (Cat. No. 1678-5, 25)  
 Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070-1, 5)  
 EPZ004777 (Cat. No. 2381-1, 5)  
 EPZ-5676 (Cat. No. 2382-1, 5)  
 EPZ-6438 (E7438) (Cat. No. 2383-1, 5)  
 EPZ005687 (Cat. No. 2364-2, 10)  
 EZSolution™ EPZ005687 (Cat. No. 2375-2)  
 EZSolution™ GSK126 (Cat. No. 2366-1)  
 3-Deazaneplanocin A (Cat. No. 2060-250, 1000)  
 3-Deazaneplanocin A hydrochloride (Cat. No. 2060-250, 1000)  
 GSK343 (Cat. No. 2281-1, 5)  
 EZSolution™ GSK343 (Cat. No. 2365-1)  
 EZSolution™ GSK126 (Cat. No. 2366-1)  
 GSK126 (Cat. No. 2282-1, 5)  
 (+)-JQ1 (Cat. No. 2070-1, 5)  
 EZSolution™ (+)-JQ1 (Cat. No. 2091-1)  
 Lomeguatrib (Cat. No. 2224-5, 25)  
 RG108 (Cat. No. 1679-10, 30)  
 UNC0638 (Cat. No. 1933-1,  
 Zebularine (Cat. No. 2225-1, 5)

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