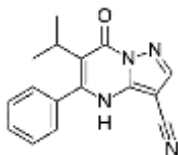


**PRODUCT: CPI-455****ALTERNATE NAME:** 6-Isopropyl-7-oxo-5-phenyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-3-carbonitrile**CATALOG NUMBER:** B1881-5,25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>16</sub>H<sub>14</sub>N<sub>4</sub>O**MOLECULAR WEIGHT:** 278.31**CAS NUMBER:** 1628208-23-0**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light**DESCRIPTION:**

CPI-455 is a potent and selective KDM5A inhibitor (IC<sub>50</sub> ~10 nM). It inhibits KDM5A, KDM5B and KDM5C to similar extents but shows substantially weaker potency toward KDM4C and KDM7B (~200- and 770-fold, respectively) and no detectable inhibition of KDM2B, KDM3B or KDM6A. It specifically alters H3K4 methylation in cells and binds at the demethylase active site. CPI-455-mediated KDM5 inhibition leads to a dose-dependent increase in global H3K4me3 in HeLa cells, and the removal of CPI-455 resulted in a rapid reversal of H3K4me3 increases in HeLa cells.

**REFERENCES:** Vinogradova M, *et al.* (2016). *Nat. Chem. Biol.* **12**, 531-538.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

A-366 (Cat. No. 2859-1, 5)

AMI-1 (Cat. No. 1943-5, 25)

Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)

BAZ2-ICR (B1865)

BI-7273 (B1879)

BI-9564 (B1880)

5- BIX01294 (Cat. No. 1678-5, 25)

Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070-1, 5)

BRD4770 (Cat. No.9525-5, 25)

EZSolution™ (+)-JQ1 (Cat. No. 2091-1)

3-Deazaneplanocin (Cat. No. 2060-250, 1000)

2'-Deoxy-5-fluorocytidine (Cat. No. 2387-50, 250)

EPZ-015666 (Cat. No. 9510-1,5)

EPZ011989 (Cat. Np. B1221-5,25)

Lomeguatrib (Cat. No. 2224-5, 25)

Mivebresib (Cat. No. B1564-5,25)

Nanaomycin A (Cat. No. 2790-5, 25)

RG108 (Cat. No. 1679-10, 30)

SGI-1027 (Cat. No. 2726-5, 25)

UNC0638 (Cat. No. 1933-1, 5)

UNC0642 (Cat. No. 2862-5, 25)

Zebularine (Cat. No. 2225-1,

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