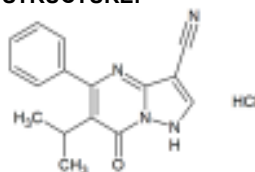


# CPI-455 hydrochloride

**ALTERNATE NAME:** CPI455 HCl  
7-oxo-5-phenyl-6-propan-2-yl-1H-pyrazolo[1,5-a]pyrimidine-3-carbonitrile;hydrochloride

**CATALOG #:** B3254-5 5 mg  
B3254-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>16</sub>H<sub>15</sub>ClN<sub>4</sub>O

**MOLECULAR WEIGHT:** 314.77

**CAS NUMBER:** 2095432-28-1

**APPEARANCE:** Crystalline solid

**PURITY:** ≥98% by HPLC

**SOLUBILITY:** >50 mg/ml DMSO

**DESCRIPTION:** CPI-455 hydrochloride is a potent and selective inhibitor of KDM5 demethylases, which reduces survival of drug-tolerant cancer cells. CPI-455 binds to the demethylase active site and selectively inhibits KDM5A-D (IC<sub>50</sub>s = 2-10 nM) over KDM2-4, 6, and 7 family members (IC<sub>50</sub>s = 1 to >25 μM). It increases histone H3K4me<sub>2/3</sub> methylation in vitro and decreases the number of drug-tolerant cells in PC9 non-small cell lung, M14 melanoma, and SKBR3 breast cancer cell populations.

**STORAGE TEMPERATURE:** -20°C. Protect from moisture

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

**RELATED PRODUCTS:**

HDM Inhibitor, 2,4-PDCA (2304)  
ML-324 (2763)  
AS8351 (B1082)  
Jumonji HDM Inhibitor, JIB-04 (2474)  
Daminozide (2438)

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