

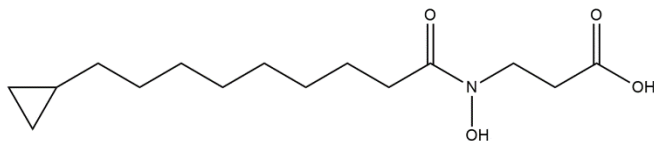
# TC-E 5002

08/19

**ALTERNATE NAME:** 3-[9-cyclopropylnonanoyl(hydroxy)amino]propanoic acid; N-(9-Cyclopropyl-1-oxononyl)-N-hydroxy-beta-alanine; 3-(9-cyclopropyl-N-hydroxynonanamido)propanoic acid

**CATALOG #:** B2856-1 1 mg  
B2856-5 5 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>15</sub>H<sub>27</sub>NO<sub>4</sub>

**MOLECULAR WEIGHT:** 285.38

**CAS NUMBER:** 1453071-47-0

**APPEARANCE:** A crystalline solid

**PURITY:** ≥98%

**SOLUBILITY:** ~30 mg/ml in DMSO  
~50 mg/ml in Ethanol  
~10 mg/ml in DMF  
~0.25 mg/ml in PBS, pH 7.2

**DESCRIPTION:** TC-E 5002 is an inhibitor of the histone lysine demethylase (KDM) subfamily KDM2/7. It potently inhibits KDM2A, KDM7A and KDM7B with an IC<sub>50</sub> of 6.8 μM, 0.2 μM and 1.2 μM respectively. It inhibits the growth of KYSE150 and HeLa cells with GI<sub>50</sub> values of 16 μM and 40 μM respectively and arrests cells in the G<sub>0</sub>/G<sub>1</sub> phase of the cell cycle. It inhibits demethylation of H3K27me2 at similar concentrations.

**STORAGE TEMPERATURE:** -20°C

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

**REFERENCE:** Suzuki, T., Ozasa, H., Itoh, Y., et al. Identification of the KDM2/7 histone lysine demethylase subfamily inhibitor and its antiproliferative activity. J. Med. Chem. 56(18), 7222-7231 (2013).

**RELATED PRODUCTS:**

HDM Inhibitor, 2,4-PDCA (Cat. No. 2304)  
 RN 1 dihydrochloride (Cat. No. B2080)  
 Lysine-specific Demethylase Inhibitor (1C) (Hydrochloride) (Cat. No. B2814)  
 DDP-38003 dihydrochloride (Cat. No. B1958)  
 2,4-Pyridinedicarboxylic Acid (Cat. No. B2809)

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