

Catalog Number: CM04394

## 产品信息

**Catalog Number:**  
CM04394

**CAS号:**  
1316214-52-4

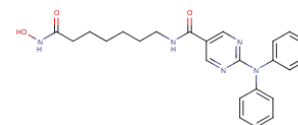
**分子式:**  
C<sub>24</sub>H<sub>27</sub>N<sub>5</sub>O<sub>3</sub>

**主要靶点:**  
HDAC|Apoptosis

**主要通路:**  
表观遗传|DNA 损伤和修复|凋亡

**分子量:**  
433.5

**溶解度:**  
Ethanol:< 1 mg/mL (insoluble or slightly soluble); DMSO:50 mg/mL (115.34 mM)



## 靶点活性

HDAC3:51 nM|HDAC2:48 nM|HDAC1:58 nM|HDAC6:4.7 nM|HDAC8:100 nM

## 体外活性

在浆细胞瘤模型和弥散性MM模型中,ACY-1215易被肿瘤组织吸收并且不会在组织中积累,能够抑制肿瘤生长。

## 体内活性

在极低剂量时,ACY-1215能够显著诱导  $\alpha$ -tubulin乙酰化,同时在较高剂量时,能够诱导组蛋白H3和H4组蛋白赖氨酸的乙酰化。在HDAC4, HDAC5, HDAC7, HDAC9, HDAC11, Sirtuin1,和 Sirtuin2,对HDAC8中,ACY-1215,ACY-1215(IC<sub>50</sub>=0.1  $\mu$  M) 有轻微的活性。

## 细胞实验

ACY-1215 is dissolved in DMSO (10 mM) and stored, and then in diluted with appropriate culture medium before use[1]. The effect of ACY-1215 with or without Bortezomib on the viability of MM cell lines, patient MM cells, and PBMCs is assessed by measuring MTT dye absorbance. PBMCs from healthy donors are isolated and stimulated with 2.5  $\mu$ g/mL of phytohemagglutinin (PHA) for 48 hours in the presence of increasing concentrations of ACY-1215. DNA synthesis is measured by tritiated thymidine uptake. CD4+ T cells are purified from human blood with the Rosette Sep negative-selection kit. Cells are stimulated by CD3/CD28 Dynabeads for 7 days in the presence of compounds. Cell viability is assessed using alamarBlue. MM cells (2-3×10<sup>4</sup> cells/well) are incubated in 96-well culture plates with medium and different concentrations of ACY-1215, Bortezomib, and/or recombinant IL-6 (10 ng/mL) or insulin-like growth factor-1 (IGF-1; 50 ng/mL) for 24 hours at 37°C, and tritiated thymidine incorporation is measured[1].

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.