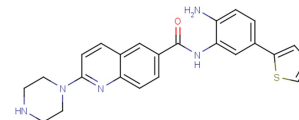


ACY-957

**Chemical Properties**

CAS No.: 1609389-52-7  
Formula: C<sub>24</sub>H<sub>23</sub>N<sub>5</sub>O<sub>5</sub>  
Molecular Weight: 429.54  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	ACY-957 is an orally active and selective inhibitor of HDAC1 and HDAC2 (IC <sub>50</sub> s: 7 nM, 18 nM, and 1300 nM against HDAC1/2/3) and shows no inhibition on HDAC4/5/6/7/8/9.
Targets(IC <sub>50</sub> )	HDAC1: 7 nM HDAC2: 18 nM HDAC3: 1300 nM
In vitro	ACY-957 has an IC <sub>50</sub> of 304 nM for HDAC2 in primary hematopoietic progenitors.

**Solubility Information**

Solubility	DMSO: 83.33 mg/mL (194.00 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.328 mL	11.64 mL	23.281 mL
5 mM	0.466 mL	2.328 mL	4.656 mL
10 mM	0.233 mL	1.164 mL	2.328 mL
50 mM	0.047 mL	0.233 mL	0.466 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Shearstone JR, et al. Chemical Inhibition of Histone Deacetylases 1 and 2 Induces Fetal Hemoglobin through Activation of GATA2. PLoS One. 2016 Apr 13;11(4):e0153767.

Inhibitors · Natural Compounds · Compound Libraries

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