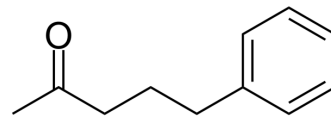


5-Phenylpentan-2-one

Cat. No.:	HY-145613
CAS No.:	2235-83-8
Molecular Formula:	C ₁₁ H ₁₄ O
Molecular Weight:	162.23
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (616.41 mM; Need ultrasonic)																								
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td></td> <td>6.1641 mL</td> <td>30.8204 mL</td> <td>61.6409 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>1.2328 mL</td> <td>6.1641 mL</td> <td>12.3282 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.6164 mL</td> <td>3.0820 mL</td> <td>6.1641 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM		6.1641 mL	30.8204 mL	61.6409 mL	5 mM		1.2328 mL	6.1641 mL	12.3282 mL	10 mM		0.6164 mL	3.0820 mL	6.1641 mL			
		Solvent Concentration	Mass	1 mg	5 mg	10 mg																			
		1 mM		6.1641 mL	30.8204 mL	61.6409 mL																			
		5 mM		1.2328 mL	6.1641 mL	12.3282 mL																			
10 mM		0.6164 mL	3.0820 mL	6.1641 mL																					
Please refer to the solubility information to select the appropriate solvent.																									
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.41 mM); Clear solution																								
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (15.41 mM); Clear solution																								
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.41 mM); Clear solution																								

BIOLOGICAL ACTIVITY

Description	5-Phenylpentan-2-one is a potent histone deacetylases (HDACs) inhibitor. 5-Phenylpentan-2-one can be used for urea cycle disorder research ^{[1][2]} .
-------------	--

REFERENCES

[1]. Sabrina Paganoni, et al. Trial of Sodium Phenylbutyrate-Taurursodiol for Amyotrophic Lateral Sclerosis. N Engl J Med. 2020 Sep 3;383(10):919-930.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA