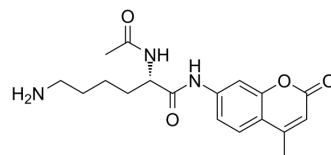


Ac-Lys-AMC

Cat. No.:	HY-128919		
CAS No.:	156661-42-6		
Molecular Formula:	C ₁₈ H ₂₃ N ₃ O ₄		
Molecular Weight:	345.39		
Target:	HDAC		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (289.53 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8953 mL	14.4764 mL	28.9528 mL
	5 mM	0.5791 mL	2.8953 mL	5.7906 mL
	10 mM	0.2895 mL	1.4476 mL	2.8953 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ac-Lys-AMC (Hexanamide), also termed MAL, is a fluorescent substrate for histone deacetylase HDACs^[1].

REFERENCES

- [1]. Heltweg B, et al. Nonisotopic substrate for assaying both human zinc and NAD⁺-dependent histone deacetylases. *Anal Biochem.* 2003 Aug 1;319(1):42-8.

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

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