Ac-Lys-AMC

Cat. No.: HY-128919

CAS No.: 156661-42-6

Molecular Formula: $C_{18}H_{23}N_3O_4$

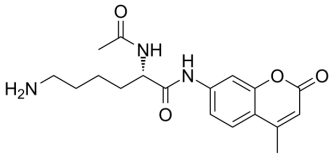
Molecular Weight: 345.39

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)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

1. 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
2. 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
3. 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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