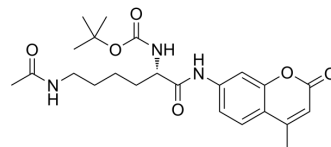


Boc-Lys(Ac)-AMC

Cat. No.:	HY-138159
CAS No.:	233691-67-3
Molecular Formula:	C ₂₃ H ₃₁ N ₃ O ₆
Molecular Weight:	445.51
Target:	HDAC; Fluorescent Dye
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (224.46 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2446 mL	11.2231 mL	22.4462 mL
	5 mM	0.4489 mL	2.2446 mL	4.4892 mL
	10 mM	0.2245 mL	1.1223 mL	2.2446 mL

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

BIOLOGICAL ACTIVITY

Description

Boc-Lys(Ac)-AMC is a cell-permeable fluorometric HDAC substrate (Ex/Em = 355 nm/460 nm)^{[1][2]}.

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).

Tissue culture-based HDAC assay^[2]

1. Apply 25 μM Boc-Lys(Ac)-AMC to the overnight culture seeded from 6 × 10⁴ cells in 100 mL medium in 96-well tissue culture plates.
 2. Incubate 2-3 h at 37°C with 5% CO₂ atmosphere.
 3. Terminate the deacetylation reaction by addition of HDAC developer solution containing cell lysis buffer and trypsin reagents.
 4. Incubate 15 min at room temperature.
 5. Measure the fluorescent signal of AMC by SpectraMax M5 microplate reader at Ex/Em = 355 nm/460 nm.
- MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Reddy DS, et al. Measuring Histone Deacetylase Inhibition in the Brain. *Curr Protoc Pharmacol*. 2018 Jun;81(1):e41.

[2]. Ueki N, et al. Selective cancer targeting with prodrugs activated by histone deacetylases and a tumour-associated protease. *Nat Commun*. 2013;4:2735.

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

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