## HDAC-MB

®

MedChemExpress

Cat. No.:	HY-163290	
Molecular Formula:	$C_{32}H_{38}N_4O_5S$	
Molecular Weight:	590.73	
Target:	Fluorescent Dye; Monoamine Oxidase	
Pathway:	Others; Neuronal Signaling	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	S O O N O

Product Data Sheet

DIOLOGICAL ACTIV			
Description	HDAC-MB a probe that is activated by HDAC6 and can detect and eliminate glioma cells through activation by HDAC6. HDAC- MB reveals antimetastatic and antiproliferative properties, inhibits glioma invasion and induces cellular apoptosis <sup>[1]</sup> .		
In Vitro	HDAC-MB (10 μM) can be activated by HDAC6, produces near-infrared fluorescence and images HDAC6 <sup>[1]</sup> . HDAC-MB (0-5 μM) is phototoxic and activated by HDAC6 in HeLab and U251 cells <sup>[1]</sup> . HDAC-MB (5 μM) inhibits the glioma cells migration, invasion and proliferation through the synergestic effect of MAO A inhibition and PDT, induces thereby glioma cellsapoptosis <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>		
	Cell Line:	HeLa	
	Concentration:	0-5 μΜ	
	Incubation Time:	24 h	
	Result:	Revealed a dose-dependent cytotoxicity.	
	Cell Migration Assay <sup>[1]</sup>		
	Cell Line:	U251 cells	
	Concentration:	1 μM	
	Incubation Time:	24 h	
	Result:	Reduced the cell migration by 40% with no irradiation, reduced the cell migration by 70% with light irradiation.	
	Apoptosis Analysis <sup>[1]</sup>		
	Cell Line:	U251 cells	
	Concentration:	15 μΜ	
	Incubation Time:	24 h	

Result:

## REFERENCES

[1]. Wei W, et al., HDAC6-Activatable Multifunctional Near-Infrared Probe for Glioma Cell Detection and Elimination. Anal Chem. 2024 Feb 13;96(6):2406-2414.

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

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