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Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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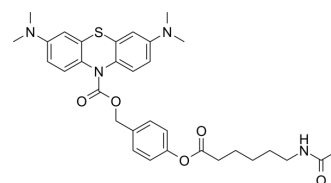
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HDAC-MB

Cat. No.:	HY-163290
Molecular Formula:	C ₃₂ H ₃₈ N ₄ O ₅ S
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.



BIOLOGICAL ACTIVITY

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 ^[1] .																						
In Vitro	HDAC-MB (10 μM) can be activated by HDAC6, produces near-infrared fluorescence and images HDAC6^[1]. HDAC-MB (0-5 μM) is phototoxic and activated by HDAC6 in HeLa and U251 cells^[1]. HDAC-MB (5 μM) inhibits the glioma cells migration, invasion and proliferation through the synergistic effect of MAO A inhibition and PDT, induces thereby glioma cells apoptosis^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[1] <table border="1"> <tr> <td>Cell Line:</td><td>HeLa</td></tr> <tr> <td>Concentration:</td><td>0-5 μM</td></tr> <tr> <td>Incubation Time:</td><td>24 h</td></tr> <tr> <td>Result:</td><td>Revealed a dose-dependent cytotoxicity.</td></tr> </table> Cell Migration Assay^[1] <table border="1"> <tr> <td>Cell Line:</td><td>U251 cells</td></tr> <tr> <td>Concentration:</td><td>1 μM</td></tr> <tr> <td>Incubation Time:</td><td>24 h</td></tr> <tr> <td>Result:</td><td>Reduced the cell migration by 40% with no irradiation, reduced the cell migration by 70% with light irradiation.</td></tr> </table> Apoptosis Analysis^[1] <table border="1"> <tr> <td>Cell Line:</td><td>U251 cells</td></tr> <tr> <td>Concentration:</td><td>15 μM</td></tr> <tr> <td>Incubation Time:</td><td>24 h</td></tr> </table>	Cell Line:	HeLa	Concentration:	0-5 μM	Incubation Time:	24 h	Result:	Revealed a dose-dependent cytotoxicity.	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.	Cell Line:	U251 cells	Concentration:	15 μM	Incubation Time:	24 h
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Incubation Time:	24 h																						

Result:	Induced apoptosis upon NIR light irradiation.
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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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