## HDAC6-IN-12

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-150722 2803866-44-4 C <sub>24</sub> H <sub>39</sub> F <sub>2</sub> N <sub>3</sub> O <sub>5</sub> 487.58 HDAC Cell Cycle/DNA Damage; Epigenetics Please store the product under the recommended conditions in the Certificate of Analysis.	P C OH N N O
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Product Data Sheet

<b>BIOLOGICAL AC</b>				
Description	HDAC6-IN-12 (compoun	HDAC6-IN-12 (compound GZ) is a potent HDAC6 inhibitor. HDAC6-IN-12 has anticancer activity through merges into DNA strands causing DNA damage. HDAC6-IN-12 can be used for cancer research <sup>[1]</sup> .		
In Vitro	A549, PANC-1, HCT-116, μM, 3.70 μM and 0.66 μM HDAC6-IN-12 (compoun the level of phospho-γ-H HDAC6-IN-12 (compoun MCE has not independe	HDAC6-IN-12 (compound GZ) (72 h) has anti-proliferative activity on tumor cells against HuH-7, HeLa, MDA-MB-231, SKOV3, A549, PANC-1, HCT-116, SGC7901 and 4T1 cells with IC <sub>50</sub> values of 0.12 μM, 0.43 μM, 0.14 μM, 0.62 μM, 0.14 μM, 1.08 μM, 0.30 μM, 3.70 μM and 0.66 μM, respectively <sup>[1]</sup> . HDAC6-IN-12 (compound GZ) (0-3 μM; 24 h; MBA-MB-231 cells) merges into DNA strands causing DNA damage and increases the level of phospho-γ-H2A.X, which is the marker of DNA strand break <sup>[1]</sup> . HDAC6-IN-12 (compound GZ) (0-100 μM; 30 min) has major metabolic enzymes including CYP3A2, CYP1A1/2 isoforms <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>		
	Cell Line:	MBA-MB-231 cells		
	Concentration:	0, 0.1, 0.3, 1 and 3 $\mu\text{M}$		
	Incubation Time:	24 hours		
	Result:	Increased the level of phospho-γ-H2A.X in a dose-dependent manner.		
In Vivo	dose-dependent manne	HDAC6-IN-12 (compound GZ) (5-10 mg/kg; i.p.; once every three days, for 15 d; bablc female mice) inhibits tumor growth in a dose-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Bablc female mice <sup>[1]</sup>		
	Dosage:	5 and 10 mg/kg		
	Administration:	Intraperitoneal injection; once every three days, for 15 days		

## REFERENCES

[1]. Li Y, et, al. Design, synthesis and antitumor activity study of a gemcitabine prodrug conjugated with a HDAC6 inhibitor. Bioorg Med Chem Lett. 2022 Sep 15;72:128881.

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

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