## HDAC8-IN-3

®

MedChemExpress

Cat. No.:	HY-147934	
CAS No.:	2432825-93-7	
Molecular Formula:	$C_{18}H_{12}N_4O_3S_2$	0 - S
Molecular Weight:	396.44	Q N N
Target:	HDAC; Apoptosis	S NH
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis	N
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	HDAC8-IN-3 (compound P19) is a potent HDAC8 inhibitor with IC <sub>50</sub> value of 9.3 μM and produces thermal stabilization. HDAC8-IN-3 has cytotoxicity and induces apoptosis in leukemic cell lines <sup>[1]</sup> .						
IC <sub>50</sub> & Target	HDAC8 9.3 μΜ (IC <sub>50</sub> )	HDAC6 17 μΜ (IC <sub>50</sub> )	HDAC2 41 μΜ (IC <sub>50</sub> )	HDAC1 ⊠50 μM (IC <sub>50</sub> )			
	HDAC3 ⊠50 μM (IC <sub>50</sub> )	НDAC4 ⊠50 µМ (IC <sub>50</sub> )	HDAC5 ⊠50 µМ (IC <sub>50</sub> )	HDAC8 ⊠50 μM (IC <sub>50</sub> )			
In Vitro	HDAC8-IN-3 (compound P19) (5-200 μM, 48 hours; HEK293T cells) has cytotoxicity in leukemic cell lines <sup>[1]</sup> . HDAC8-IN-3 (compound P19) (50 μM) inhibits glucose transporter 1 (GLUT1)-mediated glucose transport by down-regulating GLUT1 expression (IC <sub>50</sub> = 28.2 μM) <sup>[1]</sup> . HDAC8-IN-3 (compound P19) (79.9 μM; 24 hours) can induce apoptotic death in the CEM cell line <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:	K562, KCL22 and CEM leukemia cells.					
	Concentration:	50 μΜ					
	Incubation Time:	48 hours					
	Result:	Inhibited with IC $_{50}$ values of 79.9, 85.4 and 43.2 $\mu M$ for CEM, K562 and KCL22 cells, respectively.					
	Apoptosis Analysis <sup>[1]</sup>						
	Cell Line:	CEM cells					
	Concentration:	79.9 μΜ					
	Incubation Time:	24 hours					
	Result:	The percentage of apoptotic cells was recorded as 60.97%.					

Product Data Sheet



## REFERENCES

[1]. Upadhyay N, et al. Discovery of novel N-substituted thiazolidinediones (TZDs) as HDAC8 inhibitors: in-silico studies, synthesis, and biological evaluation. Bioorg Chem. 2020 Jul;100:103934.

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

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