## QTX125 TFA

Cat. No.:	HY-120448A	
Molecular Formula:	$C_{25}H_{20}F_{3}N_{3}O_{7}$	L Q
Molecular Weight:	531.44	
Target:	HDAC; Apoptosis	ОН
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis	õ
Storage:	4°C, sealed storage, away from moisture	Г Г Г
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	F

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (235.21 mM; Need ultrasonic) H <sub>2</sub> O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.8817 mL	9.4084 mL	18.8168 mL	
		5 mM	0.3763 mL	1.8817 mL	3.7634 mL	
		10 mM	0.1882 mL	0.9408 mL	1.8817 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (3.91 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.91 mM); Clear solution</li> </ol>					

biological activity				
Description	QTX125 TFA is a potent and highly selective HDAC6 inhibitor. QTX125 TFA exhibits excellent selectivity over other HDACs. QTX125 has antitumor effects <sup>[1]</sup> .			
IC <sub>50</sub> & Target	HDAC6			
In Vitro	QTX125 (25-500 nM; 24-48 hours) TFA treatment induces the subsequent apoptosis demonstrated by annexin V/propidium iodide double staining and the cleavage of caspase-9, caspase-8, caspase-3, and PARP <sup>[1]</sup> . In MCL cell lines MINO, REC-1, IRM-2 and HBL-2 cells, QTX125 TFA (10 nM, 10 μM, 100 μM) induces dose-dependent hyperacetylation of α-tubulin <sup>[1]</sup> . QTX125 TFA has the strongest growth-inhibitory effect in Burkitt cell lymphoma, follicular lymphoma, and mantle cell			



	lymphoma (MCL) <sup>[1]</sup> . MCE has not independently o Apoptosis Analysis <sup>[1]</sup>	ymphoma (MCL) <sup>[1]</sup> . //CE has not independently confirmed the accuracy of these methods. They are for reference only. \poptosis Analysis <sup>[1]</sup>			
	Cell Line:	MINO, REC-1, IRM-2 and HBL-2 cells			
	Concentration:	25 nM, 50 nM, 100 nM, 500 nM			
	Incubation Time:	24 hours, 48 hours			
	Result:	Inhibited annexin V/propidium iodide double staining.			
	Western Blot Analysis <sup>[1]</sup>				
	Cell Line:	MINO, REC-1, IRM-2 and HBL-2 cells			
	Concentration:	25 nM, 50 nM, 100 nM, 500 nM			
	Incubation Time:	24 hours			
	Result:	Inhibited the cleavage of caspase-9, caspase-8, caspase-3, and PARP.			
In Vivo	QTX125 TFA (60 mg/kg; i.p.; daily dosing for 5 days; for 4 weeks) treatment inhibits tumor growth in REC-1 or MINO cells xenografted in nude mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Nude mice bearing REC-1 or MINO cells <sup>[1]</sup>			
	Dosage:	60 mg/kg			
	Administration:	Intraperitoneal administration; daily dosing for 5 days; for 4 weeks			
	Result:	Inhibited tumor growth in REC-1 or MINO cells xenografted in nude mice.			

## REFERENCES

[1]. Montserrat Pérez-Salvia, et al. In vitro and in vivo activity of a new small-molecule inhibitor of HDAC6 in mantle cell lymphoma. Haematologica. 2018 Nov;103(11):e537-e540.

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

Tel: 609-228-6898Fax: 609-228-5909E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA