## CRA-026440 hydrochloride

Cat. No.:	HY-19754A		
CAS No.:	847459-98-	7	
Molecular Formula:	C <sub>23</sub> H <sub>25</sub> ClN <sub>4</sub> O <sub>4</sub>		
Molecular Weight:	456.92		
Target:	HDAC; Apoptosis		
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Pr	Preparing Stock Solutions	1 mM	2.1886 mL	10.9428 mL	21.8857 mL
		5 mM	0.4377 mL	2.1886 mL	4.3771 mL
		10 mM	0.2189 mL	1.0943 mL	2.1886 mL

BIOLOGICAL ACTI					
Description	CRA-026440 hydrochloride is a potent, broad-spectrum HDAC (HDAC) inhibitor. The K <sub>i</sub> values against recombinant HDAC isoenzymes HDAC1, HDAC2, HDAC3, HDAC6, HDAC8, and HDAC10 are 4 nM, 14 nM, 11 nM, 15 nM, 7 nM, and 20 nM respectively. CRA-026440 hydrochloride shows antitumor and antiangiogenic activities <sup>[1]</sup> . CRA-026440 (hydrochloride) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.				
IC₅₀ & Target	HDAC1 4 nM (IC <sub>50</sub> )	HDAC2 14 nM (IC <sub>50</sub> )	HDAC3/SMRT 11 nM (IC <sub>50</sub> )	HDAC6 15 nM (IC <sub>50</sub> )	
	HDAC8 7 nM (IC <sub>50</sub> )	HDAC10 20 nM (IC <sub>50</sub> )			
In Vitro	CRA-026440 hydrochloride has antiproliferative effect on HUVEC endothelial cells with a GI <sub>50</sub> value of 1.41 μM <sup>[1]</sup> . CRA-026440 hydrochloride (0.1-10 μM; 18 hours) results in the accumulation of acetylated histone and acetylated tubulin, leading to an inhibition of tumor cell growth and the induction of apoptosis <sup>[1]</sup> .				

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	CRA-026440 hydrochloride (0.1-10 μM; 5 days) inhibits ex vivo angiogenesis in a dose-dependent manner <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: HCT116 cells		
	Concentration:	0.1 μΜ, 0.5 μΜ, 1 μΜ, 5 μΜ, 10 μΜ	
	Incubation Time:	18 hours	
	Result:	Resulted in the accumulation of both acetylated histones and acetylated tubulin. Induced expression of the cyclin-dependent kinase inhibitor p21Cip1/WAF1.	
In Vivo	tumor growth in mice h	ride (100 mg/kg; i.v.; daily; for three consecutive days) results in a statistically significant reduction in arboring HCT116 or U937 human tumor xenografts <sup>[1]</sup> . ently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	HCT-116 tumor-bearing nude mice <sup>[1]</sup>	
	Dosage:	100 mg/kg	
	Administration:	i.v.; daily; for three consecutive days	
	Result:	Resulted in a statistically significant reduction in tumor growth.	

## REFERENCES

[1]. [1]Cao ZA, et al. CRA-026440: a potent, broad-spectrum, hydroxamic histone deacetylase inhibitor with antiproliferative and antiangiogenic activity in vitro and in vivo. Mol Cancer Ther. 2006 Jul;5(7):1693-701.

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

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