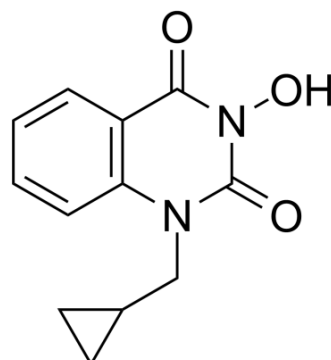


FEN1-IN-4

Cat. No.:	HY-136485		
CAS No.:	1995893-58-7		
Molecular Formula:	C ₁₂ H ₁₂ N ₂ O ₃		
Molecular Weight:	232.24		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (538.24 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.3059 mL	21.5295 mL	43.0589 mL
		5 mM	0.8612 mL	4.3059 mL	8.6118 mL
10 mM		0.4306 mL	2.1529 mL	4.3059 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	FEN1-IN-4 (Compound 2) is a human flap endonuclease-1 (hFEN1) inhibitor ^[1] .
IC₅₀ & Target	hFEN1 ^[1]
In Vitro	FEN1 inhibition selectively impairs proliferation of colon cancer cells deficient in Cdc4 and Mre11a, both frequently mutated in colorectal cancers. FEN1 has also emerged as a potential chemosensitizing target due to its role in LP-BER since it is critical for repair of Methyl methanesulfonate-induced alkylation damage, and its knockdown or inhibition increases

sensitivity to Temozolomide in glioblastoma and colorectal cancer cell lines^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jack C Exell, et al. Cellularly Active N-hydroxyurea FEN1 Inhibitors Block Substrate Entry to the Active Site. Nat Chem Biol. 2016 Oct;12(10):815-21.

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

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