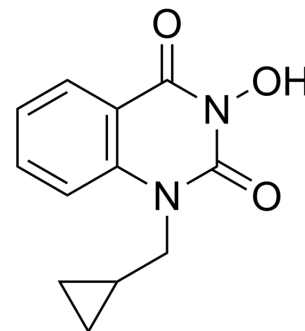


FEN1-IN-4

Cat. No.:	HY-136485		
CAS No.:	1995893-58-7		
Molecular Formula:	C ₁₂ H ₁₂ N ₂ O ₃		
Molecular Weight:	232.24		
Target:	FLAP		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



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	1. 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					
	2. 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					
	3. 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] .
IC ₅₀ & 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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