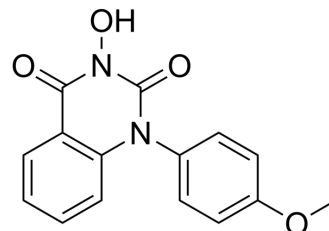


FEN1-IN-3

Cat. No.:	HY-136484		
CAS No.:	2109805-87-8		
Molecular Formula:	C ₁₅ H ₁₂ N ₂ O ₄		
Molecular Weight:	284.27		
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 : 250 mg/mL (879.45 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.5178 mL	17.5889 mL	35.1778 mL
	5 mM	0.7036 mL	3.5178 mL	7.0356 mL
	10 mM	0.3518 mL	1.7589 mL	3.5178 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 (7.32 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.32 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.32 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	FEN1-IN-3 (Compound 4) is a human flap endonuclease-1 (hFEN1) inhibitor. FEN1-IN-3 stabilizes hFEN1 with an EC ₅₀ of 6.8 μM ^[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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