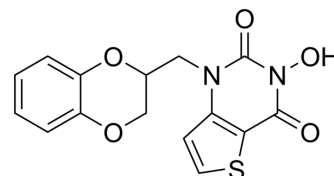


FEN1-IN-1

Cat. No.:	HY-123834		
CAS No.:	824983-91-7		
Molecular Formula:	C ₁₅ H ₁₂ N ₂ O ₅ S		
Molecular Weight:	332.33		
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 (752.26 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.0091 mL	15.0453 mL	30.0906 mL
	5 mM	0.6018 mL	3.0091 mL	6.0181 mL
	10 mM	0.3009 mL	1.5045 mL	3.0091 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FEN1-IN-1 (compound 1) is a flap endonuclease 1 (FEN1) inhibitor. FEN1-IN-1 binds to the active site of FEN1 and partly achieves inhibition by the co-ordination of Mg²⁺ ions^[1].

IC₅₀ & Target

FEN1^[1]

CUSTOMER VALIDATION

-
- Chem Eng J. 2023 Aug 15, 470, 144407.
 - Sens Actuators B Chem. 2023 Oct 15, 393, 134265.
 - Anal Chem. 2021 Feb 16;93(6):3287-3294.
 - ChemElectroChem. 2023 Mar 16.

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REFERENCES

[1]. Ward TA, et al. Small molecule inhibitors uncover synthetic genetic interactions of human flap endonuclease 1 (FEN1) with DNA damage response genes. PLoS One. 2017 Jun 19;12(6):e0179278.

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

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