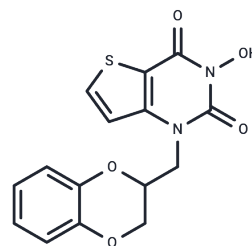


FEN1-IN-1

Chemical Properties

CAS No. :	824983-91-7
Formula:	C ₁₅ H ₁₂ N ₂ O ₅ S
Molecular Weight:	332.33
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	FEN1-IN-1 (LNT-1) is an inhibitor of flap endonuclease 1 (FEN1). FEN1-IN-1 binds to the active site of FEN1. It partly achieves inhibition by the co-ordination of Mg ²⁺ ions.
Targets(IC50)	ATM/ATR,Others,FLAP
In vitro	FEN1-IN-1 has a mean GI50 of 15.5 μM, which were obtained from 212 cell-lines[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (752.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (15.05 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0602 mL	0.3009 mL	0.6018 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Ding S, Wei Y, Chen G, et al. Detection of Cancer Marker Flap Endonuclease 1 Using One-Pot Transcription-Powered Clustered Regularly Interspaced Short Palindromic Repeat/Cas12a Signal Expansion. Analytical Chemistry. 2022

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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