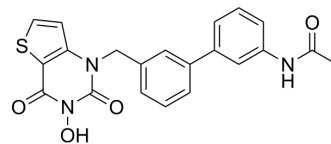


## FEN1-IN-5

<b>Cat. No.:</b>	HY-153790
<b>CAS No.:</b>	824983-93-9
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>17</sub> N <sub>3</sub> O <sub>4</sub> S
<b>Molecular Weight:</b>	407.44
<b>Target:</b>	FLAP
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (245.43 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.4543 mL	12.2717 mL	24.5435 mL
<b>5 mM</b>			0.4909 mL	2.4543 mL	4.9087 mL	
		<b>10 mM</b>		0.2454 mL	1.2272 mL	2.4543 mL
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.14 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.14 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.14 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	FEN1-IN-5 (compound 12A) is a potent inhibitor of Flap endonuclease-1 (FEN1, IC <sub>50</sub> =12 nM), involving in DNA repair <sup>[1]</sup> .
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### REFERENCES

[1]. Wadhwa P, et al. QSAR and Docking Studies of N-hydroxy Urea Derivatives as Flap Endonuclease-1 Inhibitors. Curr Comput Aided Drug Des. 2015;11(4):346-52.

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

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