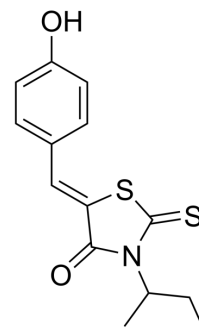


PFM03

Cat. No.:	HY-148078		
CAS No.:	1558598-48-3		
Molecular Formula:	C ₁₄ H ₁₅ NO ₂ S ₂		
Molecular Weight:	293.4		
Target:	Endonuclease		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (340.83 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.4083 mL	17.0416 mL	34.0832 mL
		5 mM	0.6817 mL	3.4083 mL	6.8166 mL
10 mM		0.3408 mL	1.7042 mL	3.4083 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: 2.5 mg/mL (8.52 mM); Clear solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.52 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	PFM03 is a MRE11 Endonuclease inhibitor. PFM03 regulates DNA double-strand break repair (DSBR) by nonhomologous end-joining (NHEJ) ^[1] .
In Vitro	PFM03 (50-400 μM; 30 min) specifically inhibits MRE11 endonuclease activity ^[1] . PFM03 (100 μM; 30 min) causes normal DSB repair in G2 (CENPF ⁺) cells ^[1] . PFM03 (50 μM; 8 h) enhances NHEJ usage but reduces homologous recombination (HR) in cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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