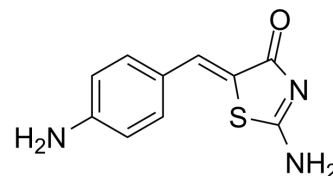


## PFM39

Cat. No.:	HY-120951
CAS No.:	1310744-67-2
Molecular Formula:	C <sub>10</sub> H <sub>9</sub> N <sub>3</sub> OS
Molecular Weight:	219.26
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (456.08 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.5608 mL	22.8040 mL	45.6080 mL
		5 mM	0.9122 mL	4.5608 mL	9.1216 mL
		10 mM	0.4561 mL	2.2804 mL	4.5608 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 (11.40 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.40 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	PFM39, a Mirin analog, is a potent and selective MRE11 exonuclease inhibitor. PFM39 inhibits phosphate rotation for dsDNA exonuclease activity. PFM39 does not inhibit TmMre11 or human MRE11/MRN endonuclease activity <sup>[1]</sup> .
In Vitro	PFM39 (100 μM) treatment impairs G2-phase double-strand break (DSB) repair in 1BR3-hTERT fibroblasts following ionizing irradiation (IR) <sup>[1]</sup> . PFM39 (50 μM) inhibits homologous recombination (HR) without significantly increasing NHEJ <sup>[1]</sup> . 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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