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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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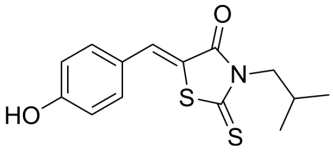
PFM01

Cat. No.:	HY-116770
CAS No.:	1558598-41-6
Molecular Formula:	$C_{14}H_{15}NO_2S_2$
Molecular Weight:	293.4
Target:	Endonuclease
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (340.83 mM)

Ethanol : 25 mg/mL (85.21 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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.

BIOLOGICAL ACTIVITY

Description

PFM01, N-alkylated Mirin derivative, is a MRE11 endonuclease inhibitor. PFM01 can regulate double-strand break repair (DSBR) by nonhomologous end-joining (NHEJ) versus homologous recombination (HR)[1][2].

IC_{50} & Target

Endonuclease[1]

In Vitro

PFM01 (100 μM) rescues the repair defect in 48BR (WT) and HSC62 (BRCA2-defective) primary cells[1].

PFM01 (100 μM) diminishes the RAD51 foci formation in 1BR3 (WT) and HSC62 (BRCA2-defective) cells[1].

PFM01 (100 μM) enhances non-homologous end-joining (NHEJ) in H1299 dA3 cells and reduces homologous recombination (HR) in U2OS DR-GFP cells[1].

PFM01 substantially relieves the double-strand break (DSB) repair defect confers by mirin or PFM39 in irradiated G2 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shibata A, et, al. DNA double-strand break repair pathway choice is directed by distinct MRE11 nuclease activities. Mol Cell. 2014 Jan 9; 53(1): 7-18.

[2]. Völkening L, et, al. RAD50 regulates mitotic progression independent of DNA repair functions. FASEB J. 2020 Feb; 34(2): 2812-2820.

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