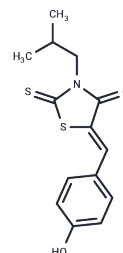


PFM01

Chemical Properties

CAS No. : 1558598-41-6
Formula: C₁₄H₁₅NO₂S₂
Molecular Weight: 293.4
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	PFM01 is an inhibitor of MRE11 endonuclease. PFM01 can regulate double-strand break repair (DSBR) by nonhomologous end-joining (NHEJ) versus homologous recombination (HR).
Targets(IC50)	Others
In vitro	PFM01 (100 μM) treatment allows normal DSB repair in HR-defective ATMi-treated or HSC62 (BRCA2-defective) cells[1]. RAD51 foci did not form following exo- or endo-inhibitor treatment (mirin or PFM01) 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].

Solubility Information

Solubility	DMSO: 4 mg/mL (13.63 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0682 mL	0.3408 mL	0.6817 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.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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