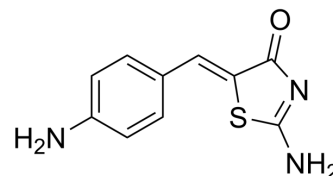


PFM39

| | |
|--------------------|------------------------------------------------------------------------------------------------|
| Cat. No.: | HY-120951 |
| CAS No.: | 1310744-67-2 |
| Molecular Formula: | C ₁₀ H ₉ N ₃ OS |
| Molecular Weight: | 219.26 |
| Target: | Endonuclease |
| Pathway: | Cell Cycle/DNA Damage |
| 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 | | |
| | Preparing Stock Solutions | | 1 mg | 5 mg | 10 mg |
| | | 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 ^[1] . |
| In Vitro | PFM39 (100 μM) treatment impairs G2-phase double-strand break (DSB) repair in 1BR3-hTERT fibroblasts following ionizing irradiation (IR) ^[1] . PFM39 (50 μM) inhibits homologous recombination (HR) without significantly increasing NHEJ ^[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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA