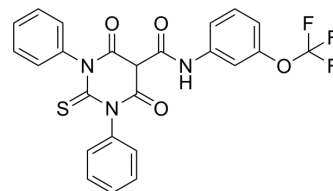


ARN24139

Cat. No.:	HY-148719
CAS No.:	2699768-78-8
Molecular Formula:	C ₂₄ H ₁₆ F ₃ N ₃ O ₄ S
Molecular Weight:	499.46
Target:	Topoisomerase
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ARN24139(compound 3f) is a topoisomerase II (topoII) inhibitor with the IC ₅₀ of 7.3 μM. ARN24139 can inhibit cancer cell proliferation and is well tolerated in vivo ^[1] .	
In Vitro	ARN24139(compound 3f) has antiproliferative activity on DU145, HeLa and A549 cells with the IC ₅₀ values of 4.7, 3.8 and 3.1 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	The pharmacokinetic parameters of ARN24139(compound 3f) in mice	
	Parameter	IV (3 mg/kg) PO (10 mg/kg)
	C _{max} (ng/mL)	7366 428
	T _{max} (min)	5 120
	AUC _{plasma} (min*ng/mL)	295528 77385
	t _{1/2} (min)	30 190
	Vd(L/kg)	3 18
	CL(L/min/kg)	0.004 -
	F(%)	8 8
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Jose M Arencibia, et al. Design, Synthesis, Dynamic Docking, Biochemical Characterization, and in Vivo Pharmacokinetics Studies of Novel Topoisomerase II Poisons with Promising Antiproliferative Activity. J Med Chem. 2020 Apr 9;63(7):3508-3521.

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