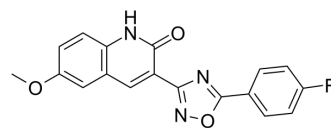


NCGC00029283

Cat. No.:	HY-128712	
CAS No.:	714240-31-0	
Molecular Formula:	C ₁₈ H ₁₂ FN ₃ O ₃	
Molecular Weight:	337.3	
Target:	DNA/RNA Synthesis	
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 : 6.94 mg/mL (20.58 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9647 mL	14.8236 mL	29.6472 mL
	5 mM	0.5929 mL	2.9647 mL	5.9294 mL
	10 mM	0.2965 mL	1.4824 mL	2.9647 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NCGC00029283 is a werner syndrome helicase-nuclease (WRN) helicase inhibitor with IC₅₀s of 2.3 μM, 12.5 μM, and 3.4 μM for WRN, BLM and FANCD1 helicase, respectively^[1].

In Vitro

NCGC00029283 (0-100 μM; 24-72 h) effectively blocks cell proliferation in U2-OS cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Cell Proliferation Assay^[1]

Cell Line:	U2-OS cells
Concentration:	1 μM, 10 μM, 100 μM
Incubation Time:	24 h, 48 h, 72 h
Result:	Showed a reduction in U2-OS cell proliferation.

REFERENCES

[1]. Joshua A Sommers, et al. A high-throughput screen to identify novel small molecule inhibitors of the Werner Syndrome Helicase-Nuclease (WRN). PLoS One. 2019 Jan 9;14(1):e0210525.

Caution: Product has not been fully validated for medical applications. For research use only.

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