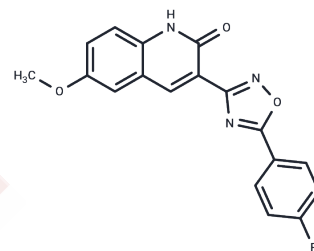


NCGC00029283

Chemical Properties

CAS No. : 714240-31-0
 Formula: C₁₈H₁₂FN₃O₃
 Molecular Weight: 337.3
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|----------------------------|--|
| Description | NCGC00029283 is a potent inhibitor of Werner syndrome helicase-nuclease (WRN), displaying inhibitory activity against WRN helicase with an IC ₅₀ value of 2.3 μM. Additionally, it exhibits inhibitory effects on Bloom syndrome protein helicase (BLM) and Fanconi anemia group J protein helicase (FANCI) with IC ₅₀ values of 12.5 μM and 3.4 μM, respectively. |
| Targets(IC ₅₀) | DNA/RNA Synthesis |
| In vitro | NCGC00029283 (0-100 μM; 24-72 h) effectively inhibits cell proliferation in U2-OS cells [1]. |

Solubility Information

Solubility DMSO: 6.3 mg/mL (18.68 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 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 |
| 50 mM | 0.0593 mL | 0.2965 mL | 0.5929 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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