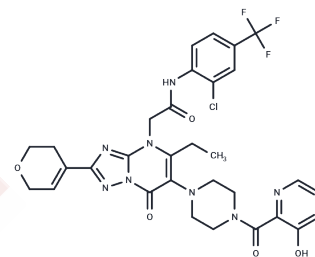


Werner syndrome RecQ helicase-IN-3

Chemical Properties

CAS No. : 2869954-98-1
 Formula: C₃₁H₃₀ClF₃N₈O₅
 Molecular Weight: 687.07
 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	Werner syndrome RecQ helicase-IN-3 is a potent and orally active inhibitor of werner syndrome RecQ helicase with an IC ₅₀ value of 0.06 μM, exhibiting strong antiproliferative and anticancer activity, and serving as a targeted probe for studying WRN-dependent DNA repair mechanisms and synthetic lethal strategies in oncology research.
Targets(IC ₅₀)	DNA/RNA Synthesis
In vitro	In cell proliferation assays, Werner syndrome RecQ helicase-IN-3 exhibited antiproliferative activity against MSI-H colorectal cancer SW48 cells with a GI ₅₀ of 0.06 μM [1].
In vivo	In female nude mice bearing SW48 xenograft tumors (MSI-H model), oral administration of Werner syndrome RecQ helicase-IN-3 at a dosage of 120 mg/kg (once daily for 22 days) resulted in the inhibition of tumor growth. These results characterize its efficacy in targeting WRN helicase within MSI-positive cancer environments in vivo [1].

Solubility Information

Solubility	DMSO: 48 mg/mL (69.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4555 mL	7.2773 mL	14.5546 mL
5 mM	0.2911 mL	1.4555 mL	2.9109 mL
10 mM	0.1455 mL	0.7277 mL	1.4555 mL
50 mM	0.0291 mL	0.1455 mL	0.2911 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

Vincent Bordas, et al. Triazolo-pyrimidine analogues for treating diseases connected to the inhibitor of werner syndrome recq helicase (wrn). WO2022249060A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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