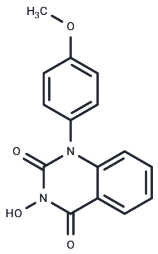
Data Sheet (Cat.No.T9147)

TargetMol

FEN1-IN-3

Chemical Properties



CAS No. : 2109805-87-8

Formula: C15H12N2O4

Molecular Weight: 284.27

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	FEN1-IN-3 is a human flap endonuclease-1 (hFEN1) inhibitor that stabilizes hFEN1 with an EC 50 of 6.8 μM .
Targets(IC50)	Others,FLAP
In vitro	FEN1 inhibition selectively impairs colon cancer cell proliferation in Cdc4 and Mre11a deficiencies, both common in colorectal cancers. FEN1 is a potential chemosensitizer, critical for repairing Methyl methanesulfonate-induced alkylation damage. Knockdown or inhibition increases Temozolomide sensitivity in glioblastoma and colorectal cancer cells.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (175.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.04 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5178 mL	17.5889 mL	35.1778 mL
5 mM	0.7036 mL	3.5178 mL	7.0356 mL
10 mM	0.3518 mL	1.7589 mL	3.5178 mL
50 mM	0.0704 mL	0.3518 mL	0.7036 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

Exell JC, et al. Cellularly active N-hydroxyurea FEN1 inhibitors block substrate entry to the active site. Nat Chem Biol. 2016;12(10):815-821.