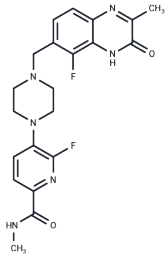
Data Sheet (Cat.No.T9756)

TargetMol
YOUR TARGET MOLECULES

AZD-9574

Chemical Properties



CAS No. : 2756333-39-6

Formula: C21H22F2N6O2

Molecular Weight: 428.44

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	AZD-9574 is a selective inhibitor of PARP1 at the sites of SSBs. AZD-9574 exhibits anti-cancer activities and can be used in studies about HRD+ breast cancer and advanced solid malignancies.
Targets(IC50)	PARP
In vitro	AZD-9574 inhibits PARP1 with IC50s range between 0.3-2 nM in all tested cell lines which is >8000-fold selectivity compared to PARP2, PARP3, PARP5a and PARP6[1].
In vivo	In an intracranial xenograft mice model of breast cancer brain metastases, AZD-9574 (3 mg/kg) shows sustained tumour growth suppression and results in a significantly extended survival of mice[1].

Solubility Information

Solubility	DMSO: 8 mg/mL (18.67 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	2.334 mL	11.6702 mL	23.3405 mL
5 mM	0.4668 mL	2.334 mL	4.6681 mL
10 mM	0.2334 mL	1.167 mL	2.334 mL
50 mM	0.0467 mL	0.2334 mL	0.4668 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.

Reference

Kunzah Jamal, et al. Abstract 2609: AZD9574 is a novel, brain penetrant PARP-1 selective inhibitor with activity in an orthotopic, intracranial xenograft model with aberrant DNA repair. Cancer Res (2022) 82 (12_Supplement):

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