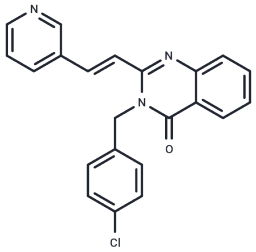
Data Sheet (Cat.No.T9271)

TargetMol

RAD51-IN-1

Chemical Properties



CAS No. : 2101739-18-6

Formula: C22H16ClN3O

Molecular Weight: 373.83

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	Rad51-in-1 is a derivative of B02 and an effective inhibitor of Rad51.
Targets(IC50)	DNA/RNA Synthesis
In vitro	RAD51-IN-1(10μM) decreases the ratio of RAD51 positive cells/cH2AX postive cells in MDA-MB-231 cell exposure to 6 Gy irradiation. RAD51-IN-1 (10μM) significantly inhibits DNA damage induced RAD51 foci formation with 6 Gy irradiation.[1]

Solubility Information

Solubility	DMSO: 27.5 mg/mL (73.56 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 (5.35 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	2.675 mL	13.3751 mL	26.7501 mL
5 mM	0.535 mL	2.675 mL	5.350 mL
10 mM	0.2675 mL	1.3375 mL	2.675 mL
50 mM	0.0535 mL	0.2675 mL	0.535 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

Ward A , Dong L , Harris J M , et al. Quinazolinone derivatives as inhibitors of homologous recombinase RAD51[J]. Bioorganic & Medicinal Chemistry Letters, 2017:S0960894X17305206.