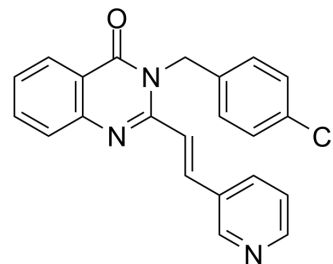


RAD51-IN-1

Cat. No.:	HY-122705		
CAS No.:	2101739-18-6		
Molecular Formula:	C ₂₂ H ₁₆ ClN ₃ O		
Molecular Weight:	373.83		
Target:	RAD51		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (167.19 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.6750 mL	13.3751 mL	26.7501 mL
	5 mM	0.5350 mL	2.6750 mL	5.3500 mL
	10 mM	0.2675 mL	1.3375 mL	2.6750 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.56 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	RAD51-IN-1, a derivative of B02, is a potent inhibitor of RAD51. RAD51-IN-1 can be used for cancer research ^[1] .
In Vitro	<p>RAD51 is a vital component of the homologous recombination DNA repair pathway and is overexpressed in drug-resistant cancers, including aggressive triple-negative breast cancer (TNBC)^[1].</p> <p>RAD51-IN-1 (10 μM) decreases the ratio of RAD51 positive cells/γH2AX positive cells in MDA-MB-231 cell exposure to 6 Gy irradiation^[1].</p> <p>RAD51-IN-1 (10 μM) significantly inhibits DNA damage induced RAD51 foci formation with 6 Gy irradiation^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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