(8R,9S)-Talazoparib

MedChemExpress

®

Cat. No.:	HY-16106A		
CAS No.:	1207456-00-	-5	
Molecular Formula:	C ₁₉ H ₁₄ F ₂ N ₆ O		
Molecular Weight:	380.35		
Target:	PARP		
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

DMSO : ≥ 50 mg/mL (131.46 mM) * "≥" means soluble, but saturation unknown.				
	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6292 mL	13.1458 mL	26.2916 mL
	5 mM	0.5258 mL	2.6292 mL	5.2583 mL
	10 mM	0.2629 mL	1.3146 mL	2.6292 mL
Please refer to the solubility information to select the appropriate solvent.				
 Add each solvent of Solubility: ≥ 2.5 mg Add each solvent of Solubility: > 2.5 mg 	one by one: 10% DMSO >> 40% PEC g/mL (6.57 mM); Clear solution one by one: 10% DMSO >> 90% cor	6300 >> 5% Tween-8 n oil	0 >> 45% saline	
	DMSO : ≥ 50 mg/mL (1 * "≥" means soluble, I Preparing Stock Solutions Please refer to the sol 1. Add each solvent of Solubility: ≥ 2.5 mg 2. Add each solvent of Solubility: ≥ 2.5 mg	DMSO : ≥ 50 mg/mL (131.46 mM) * "≥" means soluble, but saturation unknown. Preparing Stock Solutions 1 mM Stock Solutions 5 mM 10 mM Please refer to the solubility information to select the app 1. Add each solvent one by one: 10% DMSO >> 40% PEC Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% cor Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution	DMSO : ≥ 50 mg/mL (131.46 mM)* "≥" means soluble, but saturation unknown.Mass SolventI mg ConcentrationPreparing Stock Solutions1 mM Stock Solutions5 mM 0.5258 mL 10 mM0.5258 mL 0.5258 mL10 mM0.2629 mLPlease refer to the solubility information to select the appropriate solvent.1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-8 Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution	DMS0 : ≥ 50 mg/mL (131.46 mM) * "≥" means soluble, but saturation unknown. Preparing 1 mg 5 mg Stock Solutions 1 mM 2.6292 mL 13.1458 mL Stock Solutions 5 mM 0.5258 mL 2.6292 mL 10 mM 0.2629 mL 1.3146 mL Please refer to the solubility information to select the appropriate solvent. 1.4dd each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution

Description	(8R,9S)-Talazoparib ((8R,9S)-BMN-673) is an enantiomer of Talazoparib. (8R,9S)-Talazoparib is an PARP1 inhibitor, with an IC ₅₀ of 144 nM ^[1] .			
IC ₅₀ & Target	PARP-1 144 nM (IC ₅₀)			
In Vitro	(8R,9S)-Talazoparib shows an EC ₅₀ of 864 nM in cellular PARylation assay ^[1] . (8R,9S)-Talazoparib shows an EC ₅₀ of 1135 nM for Capan-1 cells (BRCA2 mutant) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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REFERENCES

[1]. Wang B, et al. Discovery and Characterization of (8S,9R)-5-Fluoro-8-(4-fluorophenyl)-9-(1-methyl-1H-1,2,4-triazol-5-yl)-2,7,8,9-tetrahydro-3H-pyrido[4,3,2-de]phthalazin-3-one (BMN 673, Talazoparib), a Novel, Highly Potent, and Orally Efficacious Poly(ADP-

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

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