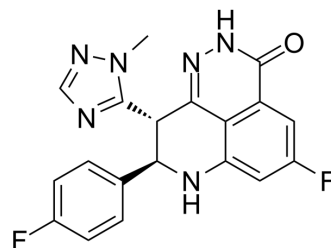


## (8R,9S)-Talazoparib

Cat. No.:	HY-16106A		
CAS No.:	1207456-00-5		
Molecular Formula:	C <sub>19</sub> H <sub>14</sub> F <sub>2</sub> N <sub>6</sub> 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

#### In Vitro

DMSO : ≥ 50 mg/mL (131.46 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(8R,9S)-Talazoparib ((8R,9S)-BMN-673) is an enantiomer of Talazoparib. (8R,9S)-Talazoparib is a PARP1 inhibitor, with an IC<sub>50</sub> of 144 nM<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

PARP-1  
 144 nM (IC<sub>50</sub>)

#### In Vitro

(8R,9S)-Talazoparib shows an EC<sub>50</sub> of 864 nM in cellular PARylation assay<sup>[1]</sup>.  
 (8R,9S)-Talazoparib shows an EC<sub>50</sub> of 1135 nM for Capan-1 cells (BRCA2 mutant)<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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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-

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

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