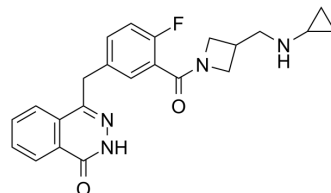


## Venadaparib

<b>Cat. No.:</b>	HY-137457		
<b>CAS No.:</b>	1681017-83-3		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>23</sub> FN <sub>4</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	406.45		
<b>Target:</b>	PARP		
<b>Pathway:</b>	Cell Cycle/DNA Damage; Epigenetics		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (246.03 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.4603 mL	12.3016 mL	24.6033 mL
	<b>5 mM</b>	0.4921 mL	2.4603 mL	4.9207 mL
	<b>10 mM</b>	0.2460 mL	1.2302 mL	2.4603 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 5.75 mg/mL (14.15 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 5 mg/mL (12.30 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 5 mg/mL (12.30 mM); Suspended solution; Need ultrasonic</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Venadaparib (IDX-1197) is a potent, selective and orally active PARP inhibitor with IC <sub>50</sub> s of 1.4 nM and 1.0 nM for PARP1 and PARP2, respectively. Venadaparib does not sensitive to PARP-5. Venadaparib prevents the repair of DNA single-strand breaks (SSB) and can be used for solid tumors research <sup>[1][2]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	PARP1 1.4 nM (IC <sub>50</sub> )	PARP2 1 nM (IC <sub>50</sub> )

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<b>In Vitro</b>	In DNA damage-induced Hela cells, Venadaparib (IDX-1197) significantly inhibits PARP1-mediated PAR expression (EC <sub>50</sub> of 0.5 nM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	In the germline BRCA1-mutated ovarian cancer PDX model, oral administration of Venadaparib (IDX-1197) exhibits significant PAR inhibition (>90%) in tumor tissues until 24 hr post dose. Venadaparib also dose-dependently led to potent tumor growth inhibition compared to Olaparib treatment group <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Yong Man Kim, et al. First-in-human dose-finding study of venadaparib (IDX-1197), a potent and selective PARP inhibitor, in patients with advanced solid tumors. *Journal of Clinical Oncology*. 39, no. 15\_suppl (May 20, 2021) 3107-3107.

[2]. Myongjae Lee, et al. Abstract A106: Development of IDX-1197, a novel, selective, and highly potent PARP inhibitor. American Association for Cancer Research, 2018.

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

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