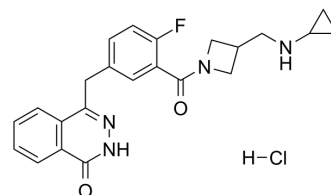


## Venadaparib hydrochloride

<b>Cat. No.:</b>	HY-137457A
<b>CAS No.:</b>	1681020-60-9
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>24</sub> ClFN <sub>4</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	442.91
<b>Target:</b>	PARP
<b>Pathway:</b>	Cell Cycle/DNA Damage; Epigenetics
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Venadaparib (IDX-1197) hydrochloride is a potent and selective PARP inhibitor with anticancer activities. Venadaparib hydrochloride 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> )
<b>In Vitro</b>	Venadaparib (example 143; 6-10 days) shows potent growth inhibition of MDA-MB-436 cells and Capan-1 pancreatic cancer cells with IC <sub>50</sub> values of ≤5nM and 50nM [2]. 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.	

### 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]. Jae-Hoon Kang, et al. A novel phtalazinone derivatives and manufacturing process thereof. WO2015037939A1.

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

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