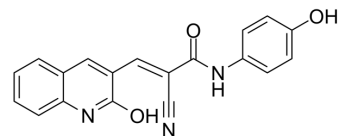


## Pim-1 kinase inhibitor 1

Cat. No.:	HY-143295
CAS No.:	2803505-57-7
Molecular Formula:	C <sub>19</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	331.32
Target:	Pim; Apoptosis
Pathway:	JAK/STAT Signaling; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Pim-1 kinase inhibitor 1 is a Pim-1 kinase inhibitor with an IC <sub>50</sub> of 0.11 μM for Pim-1 kinase. Pim-1 kinase inhibitor 1 shows anticancer activity to several cancer cell lines by promotes cell apoptosis. Pim-1 kinase inhibitor 1 can be used for the research of cancer <sup>[1]</sup> .	
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.11 μM (Pim-1 kinase), 10.93 μM (MCF-7), 4.91 μM (CACO), 7.01 μM (HepG-2), 3.41 μM (HCT-116), 27.181 μM (WI-38) <sup>[1]</sup>	
In Vitro	Pim-1 kinase inhibitor 1 (0-200 μM; 24 h) shows vitro cytotoxic activity to several cancer cells and affects cell apoptosis <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Cytotoxicity Assay <sup>[1]</sup>	
	Cell Line:	MCF-7, CACO, HepG-2, HCT-116 and WI-38 cells
	Concentration:	0-200 μM
	Incubation Time:	24 hours
	Result:	Exhibited vitro cytotoxic activity to MCF-7, CACO, HepG-2, HCT-116 and WI-38 cell lines with IC <sub>50</sub> s of 10.93, 4.91, 7.01, 3.41 and 27.181 μM, respectively. Promoted apoptosis by increasing Casp-3, BAX and Bcl-2 concentration to achieve anti-cancer activity.

### REFERENCES

[1]. A. Ammar, et al. Carboxamide appended quinoline moieties as potential anti-proliferative agents, apoptotic inducers and Pim-1 kinase inhibitors. 2021.

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

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