## PIM1-IN-1

Cat. No.:	HY-111552			
CAS No.:	1417630-95-5			
Molecular Formula:	C <sub>25</sub> H <sub>30</sub> N <sub>8</sub> O <sub>2</sub>			
Molecular Weight:	474.56			
Target:	Pim			
Pathway:	JAK/STAT Signaling			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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## SOLVENT & SOLUBILITY

In Vitro DMSO : 4.	DMSO : 45 mg/mL (94.82 mM; Need ultrasonic)					
		Solvent	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.1072 mL	10.5361 mL	21.0722 mL	
		5 mM	0.4214 mL	2.1072 mL	4.2144 mL	
		10 mM	0.2107 mL	1.0536 mL	2.1072 mL	
	Please refer to the solubility information to select the appropriate solvent.					

Description	PIM1-IN-1 is a potent and highly selective PIM1/3 inhibitor, with IC <sub>50</sub> s of 7, 5530 and 70 nM for PIM1, PIM2, and PIM3, respectively, inhibits the phosphorylation of BAD, a downstream target of PIM, with an EC <sub>50</sub> of 262 nM. PIM1-IN-1 shows no obvious effect on FLT3 or hERG binding. Antiproliferative and anti-cancer activity <sup>[1]</sup> .			
IC <sub>50</sub> & Target	PIM1 7 nM (IC <sub>50</sub> )	PIM3 70 nM (IC <sub>50</sub> )	PIM2 5530 nM (IC <sub>50</sub> )	
In Vitro	PIM1-IN-1 (Compound 42) exhibits antiproliferative activity, with GI50 of 1.48 μM for melanoma cell line SKMEL-19. PIM1-IN-1 has significant synergistic effect combined with different antitumoral agents in different tumor cell lines <sup>[1]</sup> . PIM1-IN-1 (2.5, 5, or 10 μM, 24 hours) induces apoptosis in SKMEL19 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis <sup>[1]</sup> Cell Line:SKMEL19 cells			

## Product Data Sheet

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	Concentration:	2.5, 5, or 10 μM
	Incubation Time:	24 hours
	Result:	Regulated cell cycle, induced cell apopsis in SKMEL19 cells.
In Vivo	PIM1-IN-1 shows cceptable clearance of 1.26 L/h/kg in BALB-C mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Martínez-González S, et al. Discovery of novel triazolo[4,3-b]pyridazin-3-yl-quinoline derivatives as PIM inhibitors. Eur J Med Chem. 2019 Feb 19;168:87-109.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA