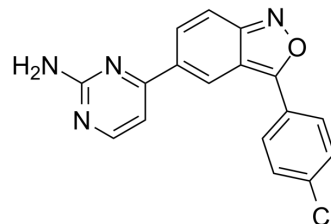


## PIM1-IN-2

Cat. No.:	HY-108605		
CAS No.:	477845-12-8		
Molecular Formula:	C <sub>17</sub> H <sub>11</sub> ClN <sub>4</sub> O		
Molecular Weight:	322.75		
Target:	Pim		
Pathway:	JAK/STAT Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 20 mg/mL (61.97 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.0984 mL	15.4919 mL	30.9837 mL
	5 mM	0.6197 mL	3.0984 mL	6.1967 mL
	10 mM	0.3098 mL	1.5492 mL	3.0984 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

PIM1-IN-2 is a potent and ATP competitive Pim-1 inhibitor with a K<sub>i</sub> of 91 nM. PIM1-IN-2 targets the ATP-binding kinase hinge region not by forming classical hydrogen bonds<sup>[1]</sup>.

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

PIM1  
91 nM (K<sub>i</sub>)

### REFERENCES

[1]. Pierce AC, Jacobs M, Stuver-Moody C. Docking study yields four novel inhibitors of the protooncogene Pim-1 kinase. J Med Chem. 2008 Mar 27;51(6):1972-5.

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

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