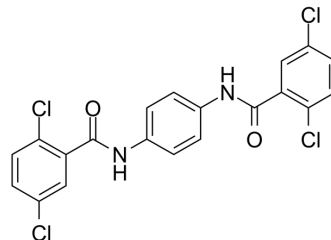


## IHR-1

<b>Cat. No.:</b>	HY-110240
<b>CAS No.:</b>	548779-60-8
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>12</sub> Cl <sub>4</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	454.13
<b>Target:</b>	Smo
<b>Pathway:</b>	Stem Cell/Wnt
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 20.83 mg/mL (45.87 mM); ultrasonic and warming and heat to 60°C					
	<b>Preparing Stock Solutions</b>	<b>Solvent Concentration</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>		2.2020 mL	11.0101 mL	22.0201 mL
		<b>5 mM</b>		0.4404 mL	2.2020 mL	4.4040 mL
		<b>10 mM</b>		0.2202 mL	1.1010 mL	2.2020 mL
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.58 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	IHR-1 is a cell membrane impermeable Smo antagonist <sup>[1]</sup> .
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### REFERENCES

[1]. Chih-Wei Fan, et al. The Hedgehog pathway effector smoothed exhibits signaling competency in the absence of ciliary accumulation. Chem Biol. 2014 Dec 18;21(12):1680-9.

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

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