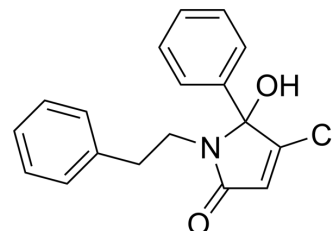


## PNB-001

Cat. No.:	HY-148656
CAS No.:	1528760-09-9
Molecular Formula:	C <sub>18</sub> H <sub>16</sub> ClNO <sub>2</sub>
Molecular Weight:	313.78
Target:	Cholecystokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (159.35 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	3.1869 mL	15.9347 mL	31.8695 mL
		5 mM	0.6374 mL	3.1869 mL	6.3739 mL
		10 mM	0.3187 mL	1.5935 mL	3.1869 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.97 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.97 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	PNB-001 is an orally active CCK2 selective ligand and antagonist. PNB-001 has anti-inflammatory and analgesic activities <sup>[1]</sup> .
IC <sub>50</sub> & Target	CCK2 <sup>[1]</sup>
In Vitro	PNB-001 (100 nM, 30 min) blocks the CCK4- and CCK5-induced contractions in rat duodenum <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	PNB-001 (5 and 20 mg /kg, p.o.) shows anti-inflammatory activity, and protects rats against Indomethacin (HY-14397) induced ulceration <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Lattmann E, et al. Cholecystokinin-2/gastrin antagonists: 5-hydroxy-5-aryl-pyrrol-2-ones as anti-inflammatory analgesics for the treatment of inflammatory bowel disease. Medchemcomm. 2017 Feb 17;8(3):680-685.

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

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