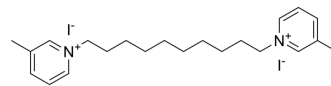


## bPiDI

<b>Cat. No.:</b>	HY-152170
<b>CAS No.:</b>	525596-64-9
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>34</sub> I <sub>2</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	580.33
<b>Target:</b>	nAChR
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (172.32 mM; Need ultrasonic)					
	<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>		1.7232 mL	8.6158 mL	17.2316 mL
		<b>5 mM</b>		0.3446 mL	1.7232 mL	3.4463 mL
		<b>10 mM</b>		0.1723 mL	0.8616 mL	1.7232 mL
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 5 mg/mL (8.62 mM); Clear solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 5 mg/mL (8.62 mM); Clear solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: 5 mg/mL (8.62 mM); Clear solution; Need ultrasonic</li> </ol>					

## BIOLOGICAL ACTIVITY

<b>Description</b>	bPiDI is a novel selective α6β2 nicotinic receptor antagonist. bPiDI inhibits nicotine-evoked striatal dopamine (DA) release through an interaction with α6β2-containing nAChRs <sup>[1]</sup> .
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## REFERENCES

[1]. Thomas E Wooters, et al. bPiDI: a novel selective α6β2\* nicotinic receptor antagonist and preclinical candidate treatment for nicotine abuse. Br J Pharmacol. 2011, 163,2.

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

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