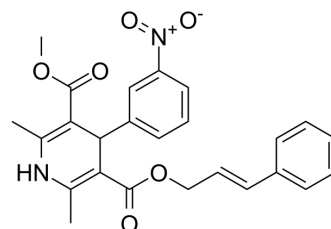


## Pranidipine

<b>Cat. No.:</b>	HY-19664												
<b>CAS No.:</b>	99522-79-9												
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>24</sub> N <sub>2</sub> O <sub>6</sub>												
<b>Molecular Weight:</b>	448.47												
<b>Target:</b>	Calcium Channel												
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
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	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 270 mg/mL (602.05 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.2298 mL	11.1490 mL	22.2980 mL
		5 mM	0.4460 mL	2.2298 mL	4.4596 mL
10 mM		0.2230 mL	1.1149 mL	2.2298 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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.25 mg/mL (5.02 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Pranidipine (OPC-13340) is a potent, long acting 1,4-dihydropyridine calcium channel blocker with antihypertensive activity [1].
<b>IC<sub>50</sub> &amp; Target</b>	Calcium channel <sup>[1]</sup>

### REFERENCES

[1]. Nakayama N, et al. Antihypertensive activity of OPC-13340, a new potent and long-acting dihydropyridine calcium antagonist, in rats. J Cardiovasc Pharmacol. 1990 May;15(5):836-44.

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

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