



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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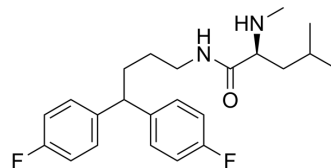
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## PD0176078

<b>Cat. No.:</b>	HY-U00236		
<b>CAS No.:</b>	248922-46-5		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>30</sub> F <sub>2</sub> N <sub>2</sub> O		
<b>Molecular Weight:</b>	388.49		
<b>Target:</b>	Calcium Channel		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (257.41 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM		2.5741 mL	12.8703 mL	25.7407 mL
		5 mM		0.5148 mL	2.5741 mL	5.1481 mL
10 mM			0.2574 mL	1.2870 mL	2.5741 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: ≥ 2.5 mg/mL (6.44 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.44 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	PD0176078 is a newly found N-type Calcium channel blocker.
<b>IC<sub>50</sub> &amp; Target</b>	N-type calcium channel

### REFERENCES

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[1]. Takashi Yamamoto, et al. Discovery, structure-activity relationship study, and oral analgesic efficacy of cyproheptadine derivatives possessing N-type calcium channel inhibitory activity. *Bioorg Med Chem.* 2006 Aug 1;14(15):5333-9.

[2]. Yamamoto T, et al. Discovery, structure-activity relationship study, and oral analgesic efficacy of cyproheptadine derivatives possessing N-type calcium channel inhibitory activity. *Bioorg Med Chem.* 2006 Aug 1;14(15):5333-9.

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

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