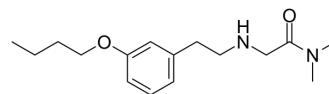


## Evenamide

<b>Cat. No.:</b>	HY-17612		
<b>CAS No.:</b>	1092977-61-1		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>26</sub> N <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	278.39		
<b>Target:</b>	Sodium Channel		
<b>Pathway:</b>	Membrane Transporter/Ion Channel		
<b>Storage:</b>	Pure form	-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 (359.21 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.5921 mL</td> <td>17.9604 mL</td> <td>35.9208 mL</td> </tr> <tr> <td>5 mM</td> <td>0.7184 mL</td> <td>3.5921 mL</td> <td>7.1842 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3592 mL</td> <td>1.7960 mL</td> <td>3.5921 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.5921 mL	17.9604 mL	35.9208 mL	5 mM	0.7184 mL	3.5921 mL	7.1842 mL	10 mM	0.3592 mL	1.7960 mL	3.5921 mL
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	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 (8.98 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 (8.98 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.98 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Evenamide (NW-3509) is an orally available voltage-gated sodium channel (VGSC) blocker (K <sub>i</sub> =0.4 μM) for the research of schizophrenia. Evenamide shows efficacy in a broad spectrum of rodent models of psychosis, mania, depression, and aggressiveness <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Sodium channel <sup>[1]</sup>
<b>In Vitro</b>	Evenamide selectively blocks voltage-gated sodium channels (VGSCs) in a voltage-and use-dependent manner (K <sub>i</sub> =0.4 μM)

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and modulates sustained repetitive firing without inducing impairment of the normal neuronal excitability. Evenamide does not bind, inhibit or interact with over 130 receptors, enzymes, or transporters<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo**

Evenamide is active in a wide range of psychiatric animal models in monotherapy and add-on to antipsychotics. Evenamide is effective in attenuating the social interaction deficit in CI 395 (PCP)-impaired rats (MED=1 mg/kg po)<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**REFERENCES**

[1]. Valentina Zuliani, et al. Advances in Design and Development of Sodium Channel Blockers. Ion Channels and Their Inhibitors pp 79-115.

[2]. Faravelli, et al. P.3.f.022 Evenamide (formerly NW-3509) targets new mechanisms, and represents a new approach to the management of untreated symptoms in schizophrenia.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA