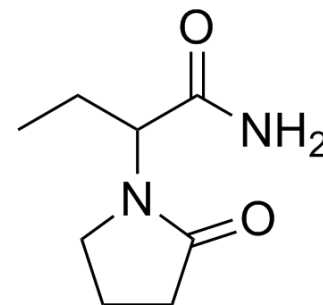


## Etiracetam

Cat. No.:	HY-B0106A		
CAS No.:	33996-58-6		
Molecular Formula:	C <sub>8</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub>		
Molecular Weight:	170.21		
Target:	Calcium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### Solvent & Solubility

#### In Vitro

DMSO : ≥ 125 mg/mL (734.39 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.8751 mL	29.3755 mL	58.7510 mL
	5 mM	1.1750 mL	5.8751 mL	11.7502 mL
	10 mM	0.5875 mL	2.9375 mL	5.8751 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 2.08 mg/mL (12.22 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**  
Solubility: ≥ 2.08 mg/mL (12.22 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.08 mg/mL (12.22 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Etiracetam (UCB 6474) is an **acetylcholine** agonist and a nootropic drug of the racetam family. Less active than its S-enantiomer Levetiracetam (UCB L059)<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Acetylcholine<sup>[1]</sup>.

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## REFERENCES

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[1]. Hovinga CA, et al. Levetiracetam: a novel antiepileptic drug. *Pharmacotherapy*. 2001 Nov;21(11):1375-88.

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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