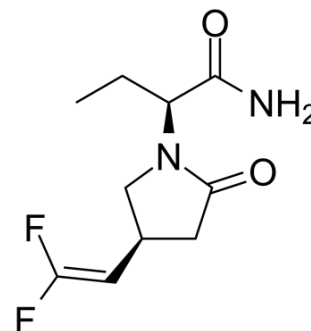


## Seletracetam

<b>Cat. No.:</b>	HY-119810
<b>CAS No.:</b>	357336-74-4
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>14</sub> F <sub>2</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	232.23
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Seletracetam (Ucb 44212) is an analog of the antiepileptic agent Levetiracetam. Seletracetam is a small molecule SV2A modulator for the research of epilepsy <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	SV2A <sup>[1]</sup>
<b>In Vitro</b>	<p>Seletracetam decreases seizure activity in a number of epilepsy models and binds to the synaptic vesicle protein SV2A<sup>[2]</sup>.</p> <p>Seletracetam decreases synaptic responses in a time-, frequency- and concentration-dependent manner<sup>[2]</sup>.</p> <p>Seletracetam modifies rates of presynaptic release<sup>[2]</sup>.</p> <p>Seletracetam inhibits high-voltage-activated Ca<sup>2+</sup> currents and intracellular Ca<sup>2+</sup> increase in rat cortical neurons in vitro<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Pollard JR, et al. Seletracetam, a small molecule SV2A modulator for the treatment of epilepsy. *Curr Opin Investig Drugs*. 2008 Jan;9(1):101-7.
- [2]. Yang X, et al. Seletracetam enhances short term depression in vitro. *Epilepsy Res*. 2015 Nov;117:17-22.
- [3]. Martella G, et al. Seletracetam (ucb 44212) inhibits high-voltage-activated Ca<sup>2+</sup> currents and intracellular Ca<sup>2+</sup> increase in rat cortical neurons in vitro. *Epilepsia*. 2009 Apr;50(4):702-10.

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

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