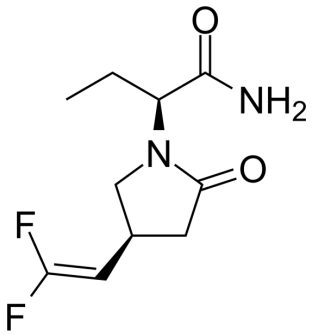
Seletracetam

Cat. No.:	HY-119810
CAS No.:	357336-74-4
Molecular Formula:	$C_{10}H_{14}F_2N_2O_2$
Molecular Weight:	232.23
Target:	Others
Pathway:	Others
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (861.22 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.3061 mL	21.5304 mL	43.0608 mL
	5 mM	0.8612 mL	4.3061 mL	8.6122 mL
	10 mM	0.4306 mL	2.1530 mL	4.3061 mL

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

BIOLOGICAL ACTIVITY

Description

Seletracetam (Ucb 44212), as an analog of the antiepileptic agent Levetiracetam, is a SV2A modulator for the research of epilepsy[1][2][3].

IC_{50} & Target

SV2A[1]

In Vitro

Seletracetam decreases seizure activity in a number of epilepsy models and binds to the synaptic vesicle protein SV2A[2].
Seletracetam decreases synaptic responses in a time-, frequency- and concentration-dependent manner[2].
Seletracetam modifies rates of presynaptic release[2].
Seletracetam inhibits high-voltage-activated Ca^{2+} currents and intracellular Ca^{2+} increase in rat cortical neurons in vitro[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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 Ca2+ currents and intracellular Ca2+ 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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