

Product Name: Retigabine dihydrochloride
Revision Date: 08/02/2022

Product Data Sheet

Retigabine dihydrochloride

Cat. No.: A3758

CAS No.: 150812-13-8

Formula: C16H20Cl2FN3O2

M.Wt: 376.25

Synonyms: D 20443 dihydrochloride;D-20443

dihydrochloride;D20443 dihydrochloride

Target: Membrane Transporter/Ion Channel

Pathway: GABA Receptor Storage: Store at -20°C



Solvent & Solubility

 \geqslant 18.8 mg/mL in DMSO; \geqslant 52.4 mg/mL in H2O with gentle warming; \geqslant 8.71 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

	Mass			
Dranaring	Solvent	1mg	5mg	10mg
Preparing Stock Solutions	Concentration		O our	
	1 mM	2.6578 mL	13. <mark>28</mark> 90 mL	26.5781 mL
	5 mM	0.5316 mL	2.6578 mL	5.3156 mL
Actions of	10 mM	0.2658 mL	1.3289 mL	2.6578 mL

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

Biological Activity

Shortsummary	Antiepileptic compound	die me the
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	Cell Viability Assay	
	Cell Line:	Chinese hamster ovary (CHO-K1) cells transfected with the KCNQ2/Q3
In Vitro		tandem construct (CHO-KCNQ2/Q3)
	Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher
		concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in

		the ultrasonic bath for a while. Stock solution can be stored below -20°C for		
		several months.		
	Reacting conditions:	0.1 ~ 10 μM		
	Applications:	Retigabine Dihydrochloride (0.1 ~ 10 μM) induced a potassium current and		
	J. Harden	hyperpolarized CHO-KCNQ2/Q3 cells but not in wild-type cells.		
	Animal experiment			
	Animal models:	Mouse 6-Hz psychomotor seizure models		
	Dosage form:	26 or 33 mg/kg; i.p.		
	Applications:	In the 6-Hz psychomotor seizure model, Retigabine Dihydrochloride		
In Vivo		dose-dependently blocked seizures induced by either 32 or 44 mA current		
		stimulation.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		slightly differ with the theoretical value. This is caused by an experimental		
	10	system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Wickenden AD, Yu W, Zou A, Jegla T, Wagoner PK. Retigabine, a novel anti-convulsant, enhances activation of KCNQ2/Q3 potassium channels. Mol Pharmacol. 2000 Sep;58(3):591-600.
- [2]. Large CH, Sokal DM, Nehlig A, Gunthorpe MJ, Sankar R, Crean CS, Vanlandingham KE, White HS. The spectrum of anticonvulsant efficacy of retigabine (ezogabine) in animal models: implications for clinical use. Epilepsia. 2012 Mar;53(3):425-36.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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