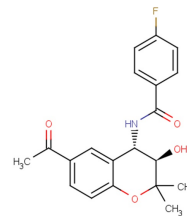


Carabersat

Chemical Properties

CAS No.:	184653-84-7
Formula:	C ₂₀ H ₂₀ FO ₄
Molecular Weight:	357.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Carabersat is an effective anticonvulsant compound.
Targets(IC ₅₀)	Others: None
In vitro	[3H]Carabersat binds to rat forebrain membranes with a moderate affinity (K _d : 40 nM; pK _i : 7.3) [1]. Carabersat (SB 204269) is able to bind to mouse forebrain membranes, and the binding is saturable and stereospecific (K _d : 53 nM). The labeled [3H]Carabersat produces a K _d of 32 nM [2]. Carabersat (1-100 μM) has no effect on Na ⁺ current in cultured hippocampal neurons. Carabersat also shows no effect on action potential discharges evoked by elevating external K ⁺ [3]. Carabersat is structurally-related to the benzopyran ATP-sensitive potassium channel (KATP) opener, cromakalim, but has opposite stereochemistry, and the mechanism of action of Carabersat is not thought to involve KATP [4].
In vivo	In mice, Carabersat (5b) elevates anticonvulsant activity [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.798 mL	13.991 mL	27.981 mL
5 mM	0.56 mL	2.798 mL	5.596 mL
10 mM	0.28 mL	1.399 mL	2.798 mL
50 mM	0.056 mL	0.28 mL	0.56 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Wai N. Chan, et al. Synthesis of Novel trans-4-(Substituted-benzamido)-3,4-dihydro-2H-benzo[b]pyran-3-ol Derivatives as Potential Anticonvulsant Agents with a Distinctive Binding Profile. J. Med. Chem., 1996, 39 (23), pp 4537-4539.
2. Herdon H, et al. The novel anticonvulsant SB 204269 binds to a stereospecific site in the mouse brain. Eur J Pharmacol. 1996 Oct 31;314(3):R7-8.
3. Caesar M, et al. Lack of effect of the novel anticonvulsant SB-204269 on voltage-dependent currents in neurones cultured from rat hippocampus. Neurosci Lett. 1999 Aug 13;271(1):57-60.
4. Crespi F, et al. SB-204269 SmithKline Beecham. IDrugs. 1998 Sep;1(5):595-8.

[Inhibitors](#) · [Natural Compounds](#) · [Compound Libraries](#)

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481