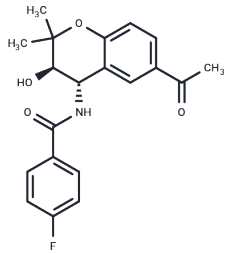
Data Sheet (Cat.No.T14863)

TargetMol

Carabersat

Chemical Properties



CAS No. : 184653-84-7

Formula: C20H20FNO4

Molecular Weight: 357.38

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Carabersat(SB 204269) is a novel and effective anticonvulsant and antiepileptic agent.
Targets(IC50)	Others,Potassium Channel
In vitro	[3H]Carabersat ([3H]SB 204269) binds to rat forebrain membranes with moderate affinity (Kd 40 nM) and pKi values of 7.3[1]. In mouse forebrain membranes, Carabersat is able to bind, and the binding is saturable and stereospecific, with a Kd of 53 nM. The labeled [3H]Carabersat produces a Kd of 32 nM[2]. Carabersat (SB-204269, 1-100 μM) has no effect on Na+ current in cultured hippocampal neurons. It also shows no effect on action potential discharges evoked by elevating external K+[4]. Structurally related to the benzopyran ATP-sensitive potassium channel (KATP) opener cromakalim, Carabersat (SB-204269) has opposite stereochemistry, and its mechanism of action is not thought to involve KATP[3].
In vivo	Significantly elevating anticonvulsant activity in mice, Carabersat (5b) has been observed[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7981 mL	13.9907 mL	27.9814 mL
5 mM	0.5596 mL	2.7981 mL	5.5963 mL
10 mM	0.2798 mL	1.3991 mL	2.7981 mL
50 mM	0.056 mL	0.2798 mL	0.5596 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.
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.
Crespi F, et al. SB-204269 SmithKline Beecham. IDrugs. 1998 Sep;1(5):595-8.
Caeser 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.