Carabersat

Cat. No.:	HY-U00307	~
CAS No.:	184653-84-7	
Molecular Formula:	C ₂₀ H ₂₀ FNO ₄	₩ 🗸 ""он
Molecular Weight:	357.38	
Target:	Others	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	F

BIOLOGICAL ACTIVITY		
Descript	Carabersat is a potent anticonvulsant agent.	
In Vitro	[³ H]Carabersat ([³ H]SB 204269) binds to rat forebrain membranes with moderate affinity (K _d 40 nM) and pK _i value Carabersat is able to bind to mouse forebrain membranes, and the binding is saturable and stereospecific, with a nM. The labelled [³ H]Carabersat produces a K _d of 32 nM ^[2] . Carabersat (SB-204269, 1-100 μM) has no effect on Na ⁺ cultured hippocampal neurones. Carabersat also shows no effect on action potential discharges evoked by elevat external K ^{+[3]} . Carabersat (SB-204269) is structurally-related to the benzopyran ATP-sensitive potassium channel opener, cromakalim, but has opposite stereochemistry, and the mechanism of action of Carabersat is not though KATP ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	s of 7.3 ^[1] . K _d of 53 current in ing (KATP) t to involve
In Vivo	Carabersat (5b) significantly elevates anticonvulsant activity in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

PROTOCOL	
Animal Administration ^[1]	Mice ^[1] In this model, groups of 10-20 naive mice (25-30 g) are assessed for production of a tonic hindlimb extension seizure following a single corneal electroshock using an "up and down" method of shock titration. The effects of drug treatment are expressed as a percentage change from vehicle control values and statistical comparisons between groups are made. Carabersat is administered orally as a fine suspension in 1% methylcellulose one hour before electroshock application ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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]. 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



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

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

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