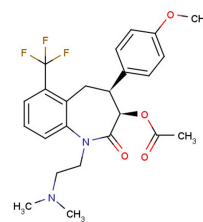


SQ-31765

Chemical Properties

CAS No.:	138383-07-0
Formula:	C ₂₄ H ₂₇ F ₃ N ₂ O ₄
Molecular Weight:	464.48
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	SQ-31765 is a blocker of benzazepine calcium channel.
Targets(IC ₅₀)	Calcium channel: None
In vivo	SQ-31765 (SQ 31,765) can reduce the severity of ischemia in a manner that is independent of changes in myocardial blood flow or hemodynamic alterations. Anesthetized dogs are given saline (n=6), SQ-31765 (n=6; 0.2 mg/kg) or SQ 32,189 (n=6; 0.2 mg/kg) i.v. 10 min before ischemia. The effect on pacing-induced ST-segment elevation (pacing+left anterior descending coronary artery stenosis) and myocardial blood flow are determined. it reduces ST-elevation (P<0.05) compared to saline at 10, 40 and 70 min after infusion (5.9±1.4 and 12.0±1.4 mV, respectively, at 70 min). Left anterior descending coronary artery stenosis during atrial pacing resulted in a significant reduction in subendocardial flow in all groups before drug infusion (41±7, 44±7 and 35±9 mL/min/100 g for saline, SQ-31765 and SQ 32,189, respectively).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.153 mL	10.765 mL	21.529 mL
5 mM	0.431 mL	2.153 mL	4.306 mL
10 mM	0.215 mL	1.076 mL	2.153 mL
50 mM	0.043 mL	0.215 mL	0.431 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. Grover GJ, et al. Anti-ischemic and vasorelaxant effects of the new benzazepine calcium channel blocker SQ 31,765. J Pharmacol Exp Ther. 1989 Dec;251(3):1020-5.

Inhibitors · Natural Compounds · Compound Libraries

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