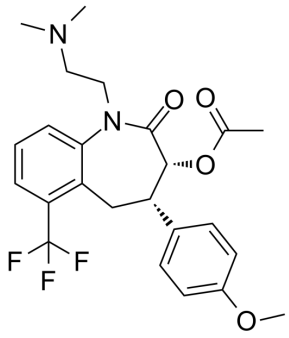
SQ-31765

Cat. No.:	HY-101740
CAS No.:	138383-07-0
Molecular Formula:	$C_{24}H_{27}F_3N_2O_4$
Molecular Weight:	464.48
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SQ-31765 is a benzazepine calcium channel blocker.
IC_{50} & Target	Calcium channel[1]
In Vivo	SQ-31765 (SQ 31,765) can reduce the severity of ischemia in a manner which 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. SQ-31765 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)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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