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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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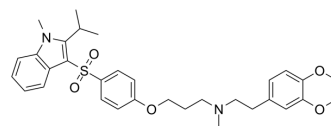
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SR33805

Cat. No.:	HY-136909
CAS No.:	121345-64-0
Molecular Formula:	C ₃₂ H ₄₀ N ₂ O ₅ S
Molecular Weight:	564.74
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (177.07 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.7707 mL	8.8536 mL	17.7073 mL
	5 mM		0.3541 mL	1.7707 mL	3.5415 mL
	10 mM		0.1771 mL	0.8854 mL	1.7707 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (3.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (3.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SR33805 is a potent Ca²⁺ channel antagonist, with EC₅₀s of 4.1 nM and 33 nM in depolarized and polarized conditions, respectively. SR33805 blocks L-type but not T-type Ca²⁺ channels. SR33805 can be used for the research of acute or chronic failing hearts^{[1][2]}.

IC₅₀ & Target

L-type calcium channel 4.1 nM (EC ₅₀ , in depolarized conditions)	L-type calcium channel 33 nM (EC ₅₀ , in polarized conditions)
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In Vitro

SR33805 (0.01-10 μM; 3 d) inhibits growth factor-induced proliferation of SMC (0.2050<0.46 μM) in a dose-dependent manner

[3].

SR33805 (10 μ M; 10 min) restores the myocardial infarction (MI)-altered cell shortening without affecting the Ca^{2+} transient amplitude^[2].

SR33805 (10 μ M) decreases the activity of recombinant PKA^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[3]

Cell Line:	Smooth muscle cells (SMC)
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Concentration:	0.01, 0.1, 1, 10 μ M
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Incubation Time:	3 days
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Result:	Inhibited in a dose-dependent manner FCS-, bFGF and PDGF-induced proliferation of porcine SMC with IC_{50} s of 0.26 ± 0.08 , 0.46 ± 0.1 and 0.20 ± 0.04 μ M, respectively.
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In Vivo

SR33805 (20 mg/kg; a single i.p.) improves end-systolic strain and fractional shortening of MI hearts in rats^[2].

SR33805 (5 mg/kg/day; p.o. for 38 d) significantly reduces intimal hyperplasia in pigs^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats (5 weeks) are subjected to coronary artery ligation ^[2]
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Dosage:	0.2, 2, 20 mg/kg
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Administration:	A single i.p. injection
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Result:	Increased significantly both end-systolic strain (ESS) and fractional shortening (FS) by about +38 and +26%, respectively at the dose of 20 mg/kg. Did not affect other contractile parameters.
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REFERENCES

[1]. Romey G, et, al. Effects of two chemically related new Ca^{2+} channel antagonists, SR33557 (fantofarone) and SR33805, on the L-type cardiac channel. Eur J Pharmacol. 1994 Sep 22; 263(1-2): 101-5.

[2]. Mou YA, et, al. Beneficial effects of SR33805 in failing myocardium. Cardiovasc Res. 2011 Aug 1; 91(3): 412-9.

[3]. Hainaud P, et, al. The calcium inhibitor SR33805 reduces intimal formation following injury of the porcine carotid artery. Atherosclerosis. 2001 Feb 1; 154(2): 301-8.

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

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