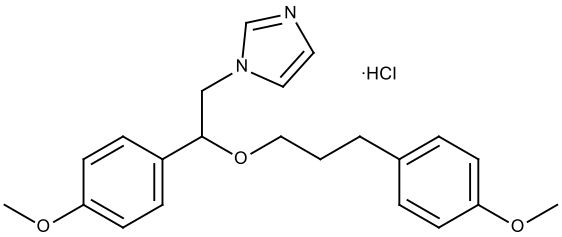
Catalog # 10-1068
SKF-96365

CAS# 130495-35-1

1-[2-(4-Methoxyphenyl)-2-[3-(4-methoxyphenyl)propoxy]ethyl]imidazole hydrochloride

Lot # X101321



SKF-96365 is an inhibitor of receptor-mediated calcium entry (RMCE) with IC_{50}'s of 8.5 µM for ADP stimulated platelets and 11.7 µM for thrombin stimulated platelets. Also inhibits Voltage-gated Ca^{2+} but not ATP-gated Ca^{2+} entry.[1] It has also been shown to block transient receptor potential canonical type (TRPC) channels[2], high-voltage-activated (HVA) L-type channels[1], K channels[3], sarcoplasmic reticulum Ca-ATPase[4] and voltage-gated sodium channels[5]. SKF-96365 is a potent blocker of LVA T-type Ca channels, in particular Ca(V)3.1 (IC_{50} = 0.56 µM).[6]

1) Merritt *et al*.,(1990) *SKF96365, a novel inhibitor of receptor-mediated calcium entry*; Biochem.J. **271** 515
2) Kiselyov *et al*., (1998) *Functional interaction between InsP3 receptors and store-operated Htrp3 channels*; Nature **396** 478
3) Schwarz *et al*., (1994) *Multiple effects of SKF96365 on ionic currents and intracellular calcium in human endothelial cells*; Cell Calcium **15** 45
4) Mason *et al*., (1993) *Inhibition of Ca2+ transport pathways in thymic lymphocytes by econazole, miconazole and SKF96365* Am.J.Physiol. **264** C654
5) Hong *et al*. (1994) *Inhibition of the sodium channel by SKF96365, an inhibitor of the receptor-operated calcium channel, in mouse diaphragm*; J.Biomed.Sci. **1** 172
6) Singh *et* al.,(2010) *The transient receptor potential channel antagonist SKF96365 is a potent blocker of low-voltage-activated T-type calcium channels*; Br.J.Pharmacol. **160** 1464

PHYSICAL DATA

Molecular Weight:	402.91
Molecular Formula:	$C_{22}H_{26}N_2O_3 \cdot HCl$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml), or water (up to 20 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase.
	Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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