

Product Name: SR 33805 oxalate

Catalog No.: 1806

Batch No.: 1

CAS Number: 121346-33-6

IUPAC Name: 3,4-Dimethoxy-N-methyl-N-[3-[4-[[1-methyl-3-(1-methylethyl)-1H-indol-2-yl]sulfonyl]phenoxy]propyl]benzeneethanamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₄₀N₂O₅S.C₂H₂O₄

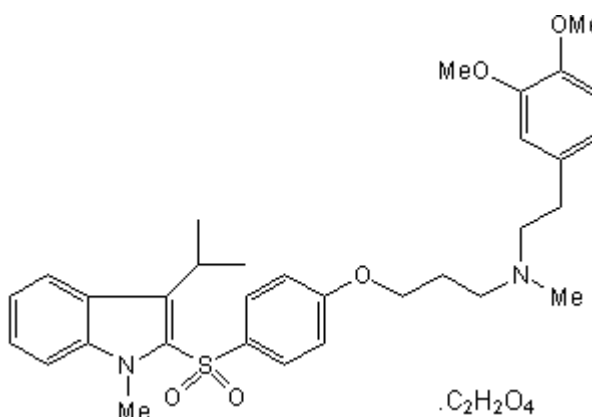
Batch Molecular Weight: 654.77

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Ethyl acetate:Methanol [9:1])

Melting Point: At 83°C

HPLC: Shows >99% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.37	6.47	4.28
Found	62.3	6.44	4.17

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Description:

Potent Ca²⁺ channel antagonist; binds allosterically to the α₁-subunit of L-type Ca²⁺ channels (K_d = 20 pM), at a site distinct from other types of blocker. Shows some selectivity for vascular smooth muscle, inducing vasorelaxation without producing inotropic or chronotropic effects. Inhibits PDGF-stimulated smooth muscle cell proliferation.

Physical and Chemical Properties:

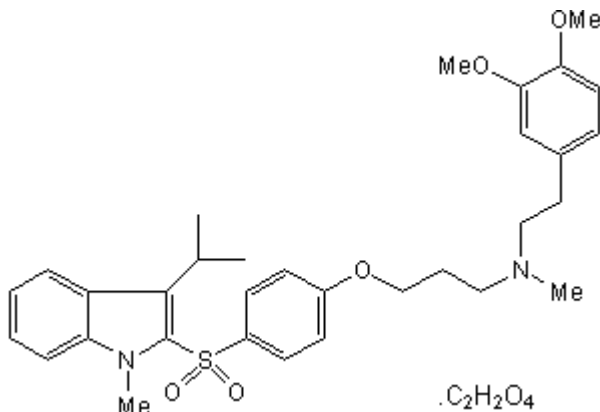
Batch Molecular Formula: C₃₂H₄₀N₂O₅S.C₂H₂O₄

Batch Molecular Weight: 654.77

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Chatelain et al (1993) In vitro characterization of a novel Ca²⁺ entry blocker: SR 33805. *Eur.J.Pharmacol.* **246** 181. PMID: 8223943.

Romey and Lazdunski (1994) Effects of a new class of calcium antagonists, SR33557 (fantofarone) and SR33805, on neuronal voltage-activated Ca⁺⁺ channels. *J.Pharmacol.Exp.Ther.* **271** 1348. PMID: 7996445.

Magnier-Gaubil et al (1996) Smooth muscle cell cycle and proliferation. Relationship between calcium influx and sarco-endoplasmic reticulum Ca²⁺-ATPase regulation. *J.Biol.Chem.* **271** 27788. PMID: 8910375.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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