

Product Name: SKF 96365 hydrochloride

Catalog No.: 1147

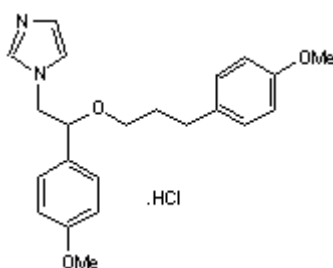
Batch No.: 2

CAS Number: 130495-35-1

IUPAC Name: 1-[2-(4-Methoxyphenyl)-2-[3-(4-methoxyphenyl)propoxy]ethyl-1*H*-imidazole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₆N₂O₃·HCl
Batch Molecular Weight: 402.92
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.59 (Dichloromethane:Methanol [10:1])
Melting Point: Between 117 - 120°C
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.58	6.75	6.95
Found	65.3	6.74	6.91

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Store-operated Ca²⁺ entry (SOCE) inhibitor that inhibits STIM1. Also blocks TRPC channels, voltage-gated Ca²⁺ channels and potassium channels.

Physical and Chemical Properties:

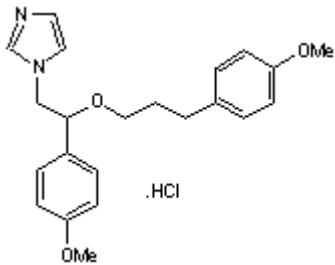
Batch Molecular Formula: C₂₂H₂₆N₂O₃.HCl

Batch Molecular Weight: 402.92

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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.

References:

Merritt et al (1990) SK&F96365, a novel inhibitor of receptor-mediated calcium entry. *Biochem.J.* **271** 515. PMID: 2173565.

Varnai et al (2009) STIM and Orai: the long-awaited constituents of store-operated calcium entry. *TiPS* **30** 118. PMID: 19187978.

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. PMID: 20590636.

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