TOCRIS a biotechne brand

Print Date: Jul 1st 2021

Batch No.: 3

Certificate of Analysis

www.tocris.com

Catalog No.: 0416

OMe

OMe

Product Name: YS-035 hydrochloride

CAS Number: 89805-39-0 IUPAC Name: *N.N-Bis*-(3.4-(

N,N-Bis-(3,4-dimethoxyphenylethyl)-N-methylamine hydrochloride

MeO

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₂₁H₂₉NO₄.HCl 395.9 White crystalline solid water to 100 mM Desiccate at RT Me0

2. ANALYTICAL DATA

TLC:
Melting Point:
¹ H NMR:
Microanalysis:

R _f = 0.6 (Dichloron	nethane:	:Methanol:Ammonia soln. [10:1:0.1])			
Between 180 - 181	°C				
Consistent with str	ucture				
Carbon Hydrogen Nitrogen					
Theoretical 63.71	7.64	3.54			

Found	63.63	7.63	3.52

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

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Product Information

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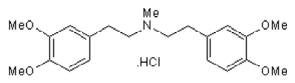
Description:

YS-035 hydrochloride is a Ca²⁺ blocker that strikingly prolongs cardiac action potentials by inhibiting pacemaker current and K⁺ outward currents.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₂₉NO₄.HCl Batch Molecular Weight: 395.9 Physical Appearance: White crystalline solid

Batch Molecular Structure:



Storage: Desiccate 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).

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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:

Berger *et al* (1991) Inhibition of potassium outward currents and pacemaker current in sheep cardiac Purkinje fibres by the vera. derivative YS-035. Naunyn Schmiedebergs Arch.Pharmacol. **344** 653. PMID: 1775198.

Deana *et al* (1984) Properties of a new calcium ion antagonist on cellular uptake and mitochondrial efflux of calcium ions. Biochem.J. **218** 899. PMID: 6721841.

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