

Certificate of Analysis

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Product Name: GBR 13069 dihydrochloride

Catalog No.: 0420

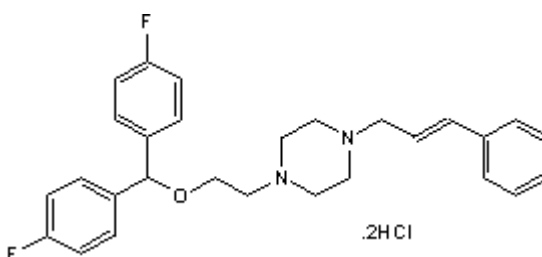
Batch No.: 3

CAS Number: 67469-45-8

IUPAC Name: (1-(2-(Bis-(4-fluorophenyl)methoxy)ethyl)-4-(3-phenyl-2-propenyl)piperazine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₀F₂N₂O.2HCl
Batch Molecular Weight: 521.48
Physical Appearance: White crystalline solid
Solubility: water to 5 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol [8:1])
Melting Point: Between 211 - 212°C
¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure

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

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IUPAC Name: (1-(2-(Bis-(4-fluorophenyl)methoxy)ethyl)-4-(3-phenyl-2-propenyl)piperazine dihydrochloride

Description:

A potent inhibitor of dopamine uptake ($IC_{50} = 40$ nM). Centrally active following systemic administration in vivo.

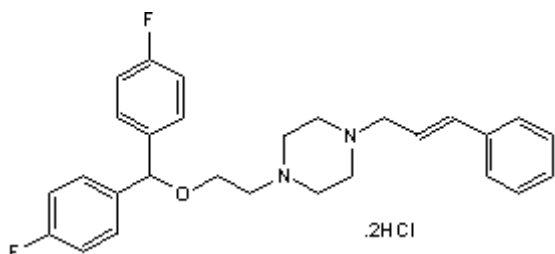
Physical and Chemical Properties:

Batch Molecular Formula: $C_{28}H_{30}F_2N_2O \cdot 2HCl$

Batch Molecular Weight: 521.48

Physical Appearance: White crystalline solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 5 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:

Heikkila et al (1984) Behavioural properties of GBR12909, GBR13069 and GBR13098: specific inhibitors of dopamine uptake. *Eur.J.Pharmacol.* **103** 241. PMID: 6237922.

Van der Zee and Hespe (1985) Interaction between substituted 1-[2-diphenylmethoxyethyl]piperazines and dopamine receptors. *Neuropharmacology* **24** 1171. PMID: 4094653.

Mayer et al (1986) Prevention of the nigrostriatal toxicity of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine by inhibitors of 3,4-dihydroxyphenylethylamine transport. *J.Neurochem.* **47** 1073. PMID: 3489072.

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