

Certificate of Analysis

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Product Name: Isamoltane hemifumarate

Catalog No.: 0992

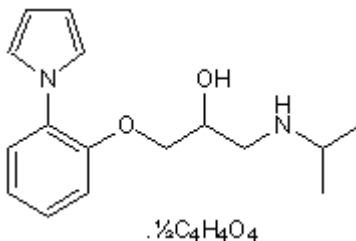
Batch No.: 2

CAS Number: 874882-92-5

IUPAC Name: 1-[(1-Methylethyl)amino]-3-[2-(1*H*-pyrrol-1-yl)]-propan-2-ol hemifumarate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{22}N_2O_2 \cdot \frac{1}{2}C_4H_4O_4 \cdot \frac{3}{4}H_2O$
Batch Molecular Weight: 345.91
Physical Appearance: Cream solid
Solubility: water to 10 mM with gentle warming
 phosphate buffered saline to 10 mM with gentle warming
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.45$ (Dichloromethane:Methanol:Ammonia soln. [10:1:0.01])
Melting Point: Between 175 - 177°C
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	62.5	7.43	8.1
Found	62.58	7.15	8.09

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

Product Information

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Description:

5-HT_{1B} antagonist, approximately 30-fold selective over 5-HT_{1A}. Also possesses affinity for β-adrenergic receptors.

Physical and Chemical Properties:

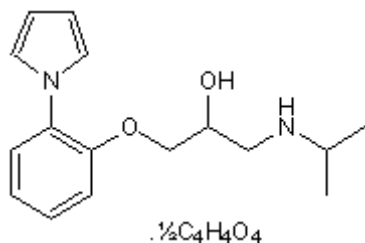
Batch Molecular Formula: C₁₆H₂₂N₂O₂·½C₄H₄O₄·¾H₂O

Batch Molecular Weight: 345.91

Physical Appearance: Cream solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 10 mM with gentle warming

phosphate buffered saline to 10 mM with gentle warming

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:

Waldmeier *et al* (1988) Interactions of isamoltane (CGP 361A), an anxiolytic phenoxypropanolamine derivative, with 5-HT₁ receptor subtypes in the rat brain. *Naunyn Schmiedebergs Arch.Pharmacol.* **337** 609. PMID: 2905765.

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