

Certificate of Analysis

Product Name: Urapidil hydrochloride

Catalog No.: 1772

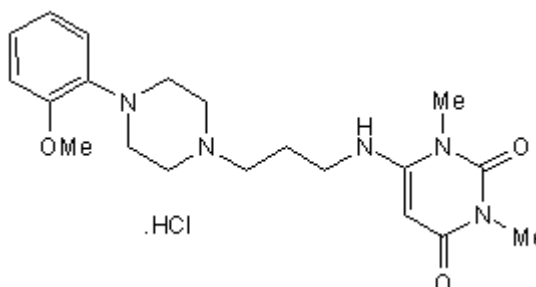
Batch No.: 1

CAS Number: 64887-14-5

IUPAC Name: 6-[[3-[4-(2-Methoxyphenyl)-1-piperazinyl]propyl]amino]-1,3-dimethyl-2,4(1*H*,3*H*)-pyrimidinedione hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀ H ₂₉ N ₅ O ₃ .HCl
Batch Molecular Weight:	423.94
Physical Appearance:	White solid
Solubility:	water to 50 mM phosphate buffered saline to 25 mM
Storage:	Desiccate at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.55 (Dichloromethane:Methanol [10:1])
Melting Point:	Between 231 - 233°C
HPLC:	Shows >99.7% purity
¹H NMR:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	56.66	7.13	16.52
Found	56.66	7.19	16.49

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

Product Name: Urapidil hydrochloride

Catalog No.: 1772

Batch No.: 1

CAS Number: 64887-14-5

IUPAC Name: 6-[[3-[4-(2-Methoxyphenyl)-1-piperazinyl]propyl]amino]-1,3-dimethyl-2,4(1*H*,3*H*)-pyrimidinedione hydrochloride

Description:

α_1 -adrenoceptor antagonist and 5-HT_{1A} receptor agonist (pIC₅₀ values are 6.13 and 6.4 respectively). Clinically used hypotensive agent.

Physical and Chemical Properties:

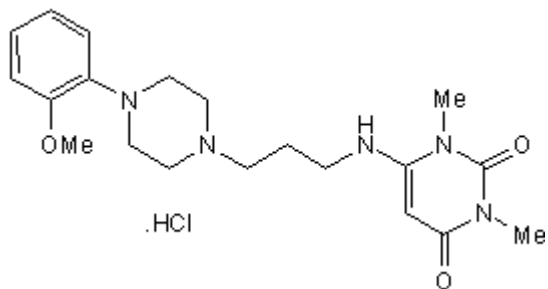
Batch Molecular Formula: C₂₀H₂₉N₅O₃.HCl

Batch Molecular Weight: 423.94

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM

phosphate buffered saline to 25 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:

Gross et al (1987) Urapidil and some analogues with hypotensive properties show high affinities for 5-hydroxytryptamine (5-HT) binding sites of the 5-HT_{1A} subtype and for α_1 -adrenoceptor binding sites. *Naunyn Schmiedebergs Arch.Pharmacol.* **336** 597. PMID: 2832770.

Kolassa et al (1989) Involvement of brain 5-HT_{1A} receptors in the hypotensive response to urapidil. *Am.J.Cardiol.* **64** 7D. PMID: 2569265.

van Zwieten PA (1989) Pharmacologic profile of urapidil. *Am.J.Cardiol.* **64** 1D. PMID: 2569262.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956