

Product Name: Naftopidil hydrochloride

Catalog No.: 0597

Batch No.: 4

CAS Number: 1164469-60-6

IUPAC Name: 4-(2-Methoxyphenyl)- α -[(1-naphthalenyloxy)methyl]-1-piperazineethanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₈N₂O₃.HCl.2H₂O

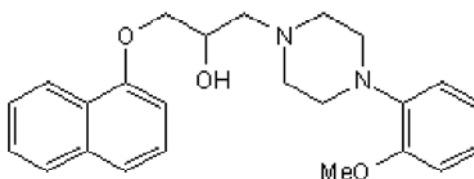
Batch Molecular Weight: 464.99

Physical Appearance: White crystalline solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure: .HCl



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	61.99	7.15	6.02	7.62
Found	62.17	7.05	6	7.5

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

Product Name: Naftopidil hydrochloride

Catalog No.: 0597

Batch No.: 4

CAS Number: 1164469-60-6

IUPAC Name: 4-(2-Methoxyphenyl)- α -[(1-naphthalenyloxy)methyl]-1-piperazineethanol hydrochloride

Description:

An α_1 -adrenoceptor antagonist with only weak antagonism at post-junctional α_2 receptors; a potent, persistent antihypertensive and vasodilator.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₄H₂₈N₂O₃.HCl.2H₂O

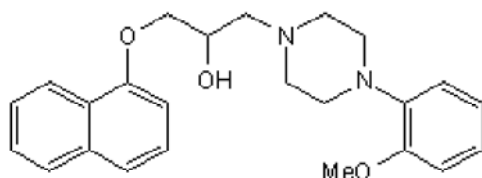
Batch Molecular Weight: 464.99

Physical Appearance: White crystalline solid

Minimum Purity: \geq 98%

Batch Molecular Structure:

.HCl



References:

Muramatsu et al (1991) Pharmacological profile of the novel alpha-adrenoceptor antagonist KT-611 (naftopidil). *Jpn.J.Pharmacol.* **55** 391. PMID: 1677438.

Borbe and Peter (1990) Alpha-1-adrenoceptor-binding material in rat plasma following single oral administration of naftopidil. *Arzneimittelforschung* **40** 253. PMID: 1971750.

Storage: Store at RT

Solubility & Usage Info:

DMSO 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.

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