

Certificate of Analysis

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Product Name: LP 20 hydrochloride

Catalog No.: 4704

Batch No.: 1

CAS Number: 1386928-34-2

IUPAC Name: 1-(4'-Methoxy[1,1-biphenyl]-2-yl)piperazine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀N₂O.HCl.H₂O

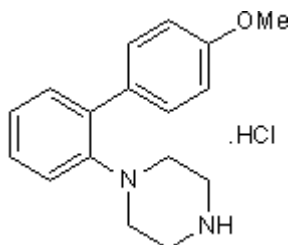
Batch Molecular Weight: 322.83

Physical Appearance: Beige solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.25	7.18	8.68
Found	63.51	6.8	8.69

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

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Description:

Ligand of the 5-HT₇ receptor (K_i = 2.6 nM); exhibits agonist and antagonist activity. Displays selectivity over adrenergic α₁ and 5-HT_{1A} receptors (K_i values are 156 and 476 nM respectively).

Physical and Chemical Properties:

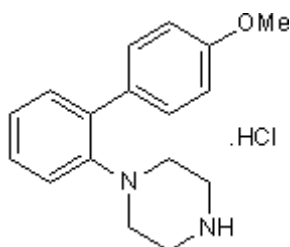
Batch Molecular Formula: C₁₇H₂₀N₂O.HCl.H₂O

Batch Molecular Weight: 322.83

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM
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.

References:

Lacivita et al (2012) Investigations on the 1-(2-biphenyl)piperazine motif: identification of new potent and selective ligands for the serotonin₇ (5-HT₇) receptor with agonist or antagonist action in vitro or ex vivo. *J.Med.Chem.* **55** 6375. PMID: 22738316.

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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