

Product Name: LP 44

Catalog No.: 2534

Batch No.: 4

CAS Number: 824958-12-5

IUPAC Name: 4-[2-(Methylthio)phenyl]-N-(1,2,3,4-tetrahydro-1-naphthalenyl)-1-piperazinehexanamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₇N₃OS.HCl.½H₂O

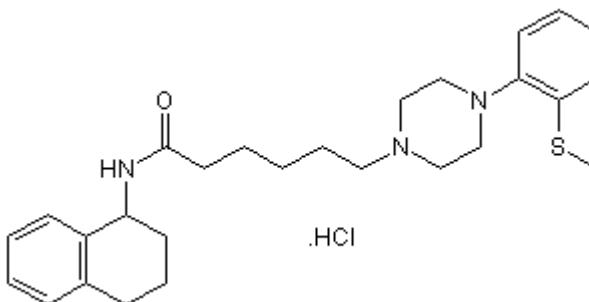
Batch Molecular Weight: 497.14

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 75 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.23	7.91	8.45
Found	65.1	7.85	8.5

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Description:

High affinity 5-HT₇ receptor agonist (K_i = 0.22 nM) that displays selectivity over 5-HT_{1A} and 5-HT_{2A} receptors (200- and > 1000-fold respectively). Induces relaxation of substance P-stimulated guinea pig ileum (EC₅₀ = 2.56 μM).

Physical and Chemical Properties:

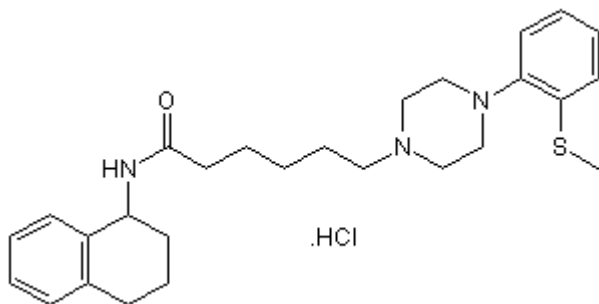
Batch Molecular Formula: C₂₇H₃₇N₃OS.HCl.½H₂O

Batch Molecular Weight: 497.14

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 75 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:

Leopoldo et al (2004) Structure-affinity relationship study on N-(1,2,3,4-tetrahydronaphthalen-1-yl)-4-aryl-1-piperazinealkylamides, a new class of 5-hydroxytryptamine₇ receptor agents. *J.Med.Chem.* **47** 6616. PMID: 15588097.

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