

Certificate of Analysis

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Product Name: MM 77 dihydrochloride

Catalog No.: 0933

Batch No.: 1

CAS Number: 159187-70-9

IUPAC Name: 1-(2-Methoxyphenyl)-4-(4-succinimidobutyl)piperazine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{27}N_3O_3 \cdot 2HCl \cdot \frac{1}{2}H_2O$

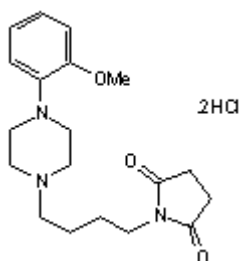
Batch Molecular Weight: 427.3676

Physical Appearance: White crystalline solid

Solubility: DMSO to 75 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.4$ (Dichloromethane:Methanol:Triethylamine [10:1:1])

Melting Point: Between 220 - 225°C

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.39	7.07	9.83
Found	53.38	7.09	9.8

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

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Description:

A highly potent and fairly selective 5-HT_{1A} ligand, which may be a full antagonist at postsynaptic receptors.

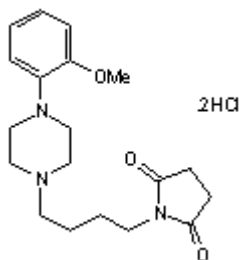
Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₇N₃O₃·2HCl·½H₂O

Batch Molecular Weight: 427.3676

Physical Appearance: White crystalline solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO 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:

Mokrosz et al (1994) 1-(2-Methoxyphenyl)-4-(4-succinimidobutyl)piperazine (MM 77): a new, potent, postsynaptic antagonist of 5-HT_{1A} receptors. *Med.Chem.Res.* **4** 161.

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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