

Certificate of Analysis

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Product Name: 4-PPBP maleate

Catalog No.: 0620

Batch No.: 2

CAS Number: 201216-39-9

IUPAC Name: 4-Phenyl-1-(4-phenylbutyl)piperidine maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₇N.C₄H₄O₄

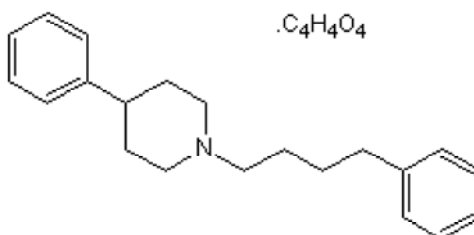
Batch Molecular Weight: 409.52

Physical Appearance: White solid

Solubility: ethanol to 25 mM
DMSO to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 99 - 103°C(dec)

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	73.32	7.63	3.42
Found	73.18	7.64	3.38

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

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CAS Number: 201216-39-9

IUPAC Name: 4-Phenyl-1-(4-phenylbutyl)piperidine maleate

Description:

σ ligand and selective non-competitive antagonist at recombinant NR1a/2B NMDA receptors expressed in *Xenopus* oocytes.

Physical and Chemical Properties:

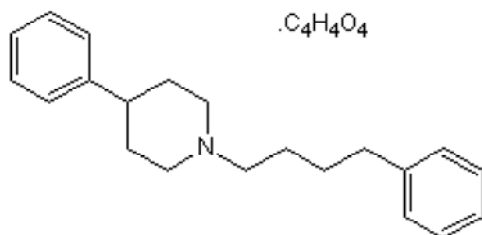
Batch Molecular Formula: C₂₁H₂₇N.C₄H₄O₄

Batch Molecular Weight: 409.52

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 25 mM

DMSO 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:

Whittemore *et al* (1997) Antagonism of N-MthD.-aspartate receptors by σ site ligands: potency, subtype-selectivity and mechanisms of inhibition. *J.Pharmacol.Exp.Ther.* **282** 326. PMID: 9223571.

Glennon *et al* (1991) Novel 1-phenylpiperazine and 4-phenylpiperidine derivatives as high affinity σ ligands. *J.Med.Chem.* **34** 3360. PMID: 1662725.

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