

Product Name: DH 97

Catalog No.: 1218

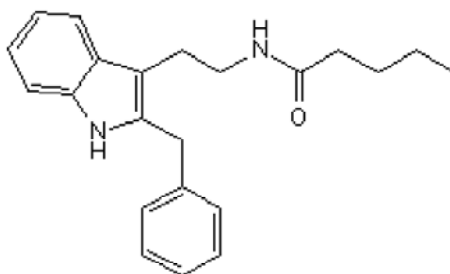
Batch No.: 1

CAS Number: 220339-00-4

IUPAC Name: *N*-Pentanoyl-2-benzyltryptamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₆N₂O
Batch Molecular Weight: 334.46
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.63 (Ethyl acetate)
Melting Point: Between 102 - 104°C
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.01	7.84	8.38
Found	78.99	7.84	8.37

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

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Batch No.: 1

CAS Number: 220339-00-4

IUPAC Name: *N*-Pentanoyl-2-benzyltryptamine

Description:

A relatively potent MT₂ melatonin receptor antagonist (pK_i value = 8.03), displaying 89- and 229-fold selectivity over MT₁ and GPR50 (melatonin-related orphan receptor) respectively.

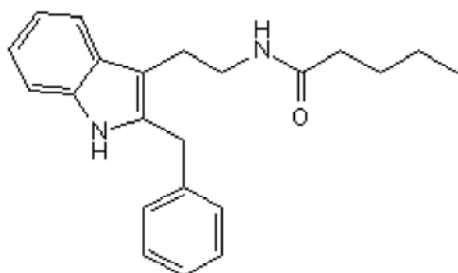
Physical and Chemical Properties:

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Batch Molecular Weight: 334.46

Physical Appearance: White solid

Batch Molecular Structure:



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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Ting *et al* (1999) Molecular and pharmacological evidence for MT₁ melatonin receptor subtype in the tail artery of juvenile Wistar rats. *Br.J.Pharmacol.* **127** 987. PMID: 10433507.

Teh and Sugden (1998) Comparison of the relationships of melatonin receptor agonists and antagonists; lengthening the N-acyl side chain has differing effects on potency on Xenopus melanophores. *Naunyn Schmiedebergs Arch.Pharmacol.* **358** 522. PMID: 9840420.

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