Print Date: Mar 2nd 2022

Certificate of Analysis

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Product Name: **PSNCBAM-1** **Catalog No.: 5321** **Batch No.: 1**

CAS Number: 877202-74-9

IUPAC Name: *N*-(4-Chlorophenyl)-*N*'-[3-[6-(1-pyrrolidinyl)-2-pyridinyl]phenyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{21}ClN_4O$

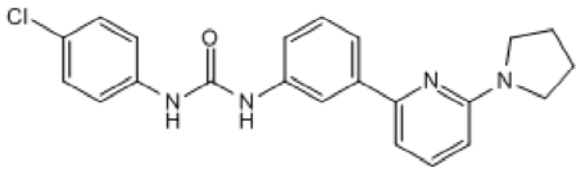
Batch Molecular Weight: 392.88

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Chloroform:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.26	5.39	14.26
Found	67.15	5.33	14.23

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Product Information

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Description:

PSNCBAM-1 is a CB_1 receptor negative allosteric modulator (IC_{50} values are 45 and 209 nM for the inhibition of CP 55,940 and WIN 55,212-2 respectively). Has no effect at the CB_2 receptor. Decreases food intake and body weight in rats.

Physical and Chemical Properties:

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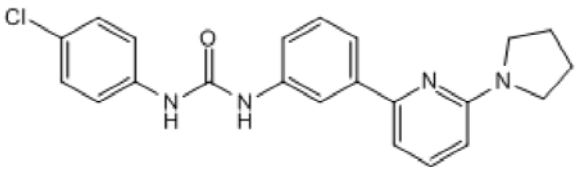
Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

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.

References:

German *et al* (2014) Diarylureas as allosteric modulators of the cannabinoid CB1 receptor: structure-activity relationship studies on 1-(4-chlorophenyl)-3-{3-[6-(pyrrolidin-1-yl)pyridin-2-yl]phenyl}urea (PSNCBAM-1). J.Med.Chem. ***57*** 7758. PMID: 25162172.

Horswill *et al* (2007) PSNCBAM-1, a novel allosteric antagonist at cannabinoid CB_1 receptors with hypophagic effects in rats. Br.J.Pharmacol. ***152*** 805. PMID: 17592509.

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