

Product Name: Ec2Ia

Catalog No.: 6832

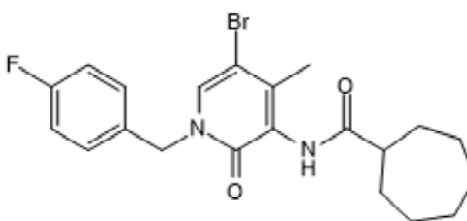
Batch No.: 1

CAS Number: 2244579-87-9

IUPAC Name: *N*-[5-Bromo-1-[(4-fluorophenyl)methyl]-1,2-dihydro-4-methyl-2-oxo-3-pyridinyl]cycloheptanecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₄BrFN₂O₂
Batch Molecular Weight: 435.33
Physical Appearance: White solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Dichloromethane:Ethyl acetate [95:5])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.94	5.56	6.43
Found	57.95	5.61	6.41

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

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Product Name: Ec21a

Catalog No.: 6832

Batch No.: 1

CAS Number: 2244579-87-9

IUPAC Name: N-[5-Bromo-1-[(4-fluorophenyl)methyl]-1,2-dihydro-4-methyl-2-oxo-3-pyridinyl]cycloheptanecarboxamide

Description:

CB₂ receptor positive allosteric modulator. Enhances CP 55940 (Cat. No. 0949) and 2-Arachidonylglycerol (Cat. No. 1298) -stimulated binding of [³⁵S]GTPγS to CB₂ receptors, but has no effect in the absence of agonist. Exhibits antinociceptive effects in an animal model of neuropathic pain.

Physical and Chemical Properties:

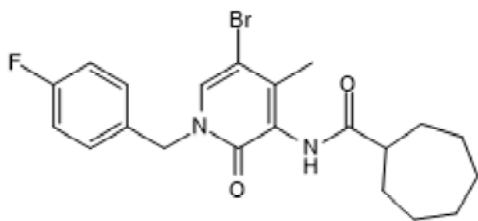
Batch Molecular Formula: C₂₁H₂₄BrFN₂O₂

Batch Molecular Weight: 435.33

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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:

Gado et al (2019) Identification of the first synthetic allosteric modulator of the CB₂ receptors and evidence of its efficacy for neuropathic pain relief. *J.Med.Chem.* **62** 276. PMID: 29990428.

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