

Product Name: FGIN-1-27

Catalog No.: 0658

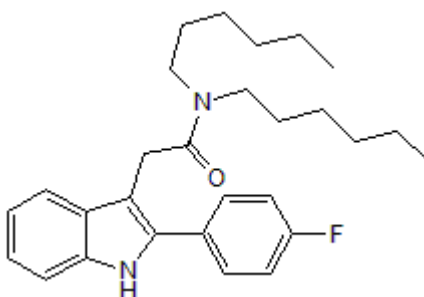
Batch No.: 2

CAS Number: 142720-24-9

IUPAC Name: *N,N*-Dihexyl-2-(4-fluorophenyl)indole-3-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₇FN₂O
Batch Molecular Weight: 436.61
Physical Appearance: Cream crystalline solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Dichloromethane:Methanol [10:1])
Melting Point: Between 97 - 98°C
HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen			
Theoretical	77.03	8.54	6.42	0 0 0
Found	76.79	8.57	6.36	0 0 0

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

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IUPAC Name: *N,N*-Dihexyl-2-(4-fluorophenyl)indole-3-acetamide

Description:

Binds specifically and with high affinity to the peptide DBI receptor (benzodiazepine receptor) on mitochondrial membranes, inducing production of neurosteroids, which modulate GABA receptors ($EC_{50} = 3$ nM for increase in production of pregnenolone in glial cells). Thus it reduces anxiety without causing sedation.

Physical and Chemical Properties:

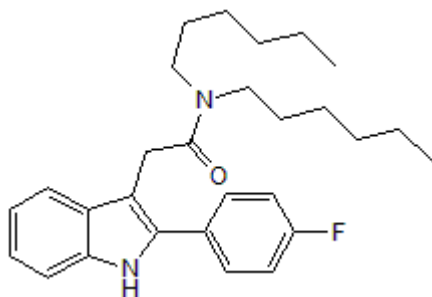
Batch Molecular Formula: $C_{28}H_{37}FN_2O$

Batch Molecular Weight: 436.61

Physical Appearance: Cream crystalline solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Romeo *et al* (1992) 2-Aryl-3-indoleacetamides (FGIN-1): a new class of potent and specific ligands for the mitochondrial DBI receptor (MDR). *J.Pharmacol.Exp.Ther.* **262** 971. PMID: 1326631.

Kozikowski *et al* (1992) Synthesis of (2-arylindol-3-yl)acetamides as probes for mitochondrial steroidogenesis - a new mechanism of GABA_A receptor modulation. *Angew.Chem.Int.Ed.* **31** 1060.

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.

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