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DATASHEET

FGIN-1-27

Product overview

Name	FGIN-1-27
Cat No	HB0913
Biological action	Agonist
Purity	>98%
Description	Potent, selective MDR receptor agonist

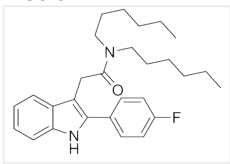
Biological Data

Biological description	Potent and selective mitochondrial diazepam binding inhibitor receptor (MDR) agonist, also known as peripheral benzodiazepine receptors. Increase Leydig cell steroid and neurosteroid production. Indirectly modulates GABA _A receptors by increasing neurosteroids. Shows anti-convulsant actions. Blood-brain barrier permeable.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	<i>N,N</i> -Dihexyl-2-(4-fluorophenyl)indole-3-acetamide
Molecular Weight	436.61
Chemical structure	
Molecular Formula	C ₂₈ H ₃₇ FN ₂ O
CAS Number	142720-24-9
PubChem identifier	132496
SMILES	<chem>O=C(N(CCCCCC)CCCCC)CC2=C(C3=CC=C(F)C=C3)NC1=CC=CC=C12</chem>
InChIKey	VUWXAQFLTSBUDB-UHFFFAOYSA-N

References

2-Aryl-3-indoleacetamides (FGIN-1): a new class of potent and specific ligands for the mitochondrial DBI receptor (MDR).

Romeo E *et al* (1992) J Pharmacol Exp Ther 262(3)

PubMedID [1326631](#)

Drug ligand-induced activation of translocator protein (TSPO) stimulates steroid production by aged brown Norway rat Leydig cells.

Chung JY *et al* (2013) Endocrinology 154(6)
PubMedID [23525219](#)

Development of ligands for the peripheral benzodiazepine receptor.

James ML *et al* (2006) Curr Med Chem 13(17)
PubMedID [16842193](#)

Stimulation of brain pregnenolone synthesis by mitochondrial diazepam binding inhibitor receptor ligands in vivo.

Korneyev A *et al* (1993) J Neurochem 61(4)
PubMedID [8397297](#)
