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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 |

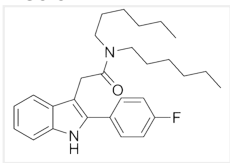
Biological Data

| | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

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|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 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

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|---------------------------|-------------------------------------------------------------------------------------|
| 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 | O=C(N(CCCCC)CCCC)CC2=C(C3=CC=C(F)C=C3)NC1=CC=CC=C12 |
| 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](#)
