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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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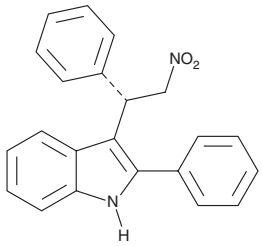
PRODUCT INFORMATION

GAT229

Item No. 24486

CAS Registry No.:	889860-85-9
Formal Name:	3-[(1S)-2-nitro-1-phenylethyl]-2-phenyl-1H-indole
MF:	$C_{22}H_{18}N_2O_2$
FW:	342.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

GAT229 is supplied as a solid. A stock solution may be made by dissolving the GAT229 in the solvent of choice, which should be purged with an inert gas. GAT229 is soluble in the organic solvent DMSO at a concentration of approximately 20 mg/ml.

Description

GAT229 is a positive allosteric modulator of cannabinoid receptor 1 (CB_1) and the S-(–) enantiomer of the CB_1 modulator GAT211.[1,2] It does not activate the receptor on its own but enhances the binding and activity of CB agonists. GAT229 (1 µM) enhances the binding of the CB_1 full agonist CP 55,940 to CHO cells expressing human recombinant CB_1 (hCB_1), as well as the activity of 2-arachidonoyl glycerol (2-AG; Item No. 62160), arachidonoyl ethanolamide (AEA; Item No. 90050), and CP 55,940 in arrestin2 recruitment assays and increases ERK1/2 and PLCβ3 phosphorylation in HEK293 cells expressing hCB_1. GAT229 (1 µM) enhances depolarization-induced suppression of excitation but does not inhibit excitatory postsynaptic currents (EPSCs) in murine autaptic hippocampal neurons.[2] GAT229 (0.2%, topical) reduces intraocular pressure by 5.8 and 7.7 mm Hg after 6 and 12 hours, respectively, in a transgenic mouse model of ocular hypertension using nose, ear, eye mutation (nee) mice.[3]

References

1. Laprairie, R.B., Kulkarni, P.M., Deschamps, J.R., *et al.* Enantiospecific allosteric modulation of cannabinoid 1 receptor. *ACS Chem Biol.* **8(6)**, 1188-1203 (2017).
2. Mitjavila, J., Yin, D., Kulkarni, P.M., *et al.* Enantiomer-specific positive allosteric modulation of CB_1 signaling in autaptic hippocampal neurons. *Pharmacol. Res.* **129**, 475-481 (2018).
3. Cairns, E.A., Szczesniak, A.-M., Straiker, A.J., *et al.* The *in vivo* effects of the CB_1-positive allosteric modulator GAT229 on intraocular pressure in ocular normotensive and hypertensive mice. *J. Ocul. Pharmacol. Ther.* **33(8)**, 582-590 (2017).

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