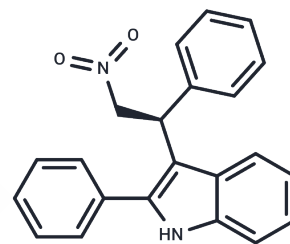


GAT229

## Chemical Properties

CAS No. : 889860-85-9  
 Formula: C<sub>22</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 342.39  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	GAT229 is a positive allosteric modulator of cannabinoid receptor 1 (CB1) and the S-(-) enantiomer of the CB1 modulator GAT211. 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 CB1 full agonist CP 55,940 to CHO cells expressing human recombinant CB1 (hCB1), as well as the activity of 2-arachidonoyl glycerol , arachidonoyl ethanolamide , and CP 55,940 in arrestin2 recruitment assays and increases ERK1/2 and PLCβ3 phosphorylation in HEK293 cells expressing hCB1. GAT229 (1 μM) enhances depolarization-induced suppression of excitation but does not inhibit excitatory postsynaptic currents (EPSCs) in murine autaptic hippocampal neurons. 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.
Targets(IC50)	Cannabinoid Receptor,Others

## Solubility Information

Solubility	DMSO: 20 mg/mL (58.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.9206 mL	14.6032 mL	29.2065 mL
5 mM	0.5841 mL	2.9206 mL	5.8413 mL
10 mM	0.2921 mL	1.4603 mL	2.9206 mL
50 mM	0.0584 mL	0.2921 mL	0.5841 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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