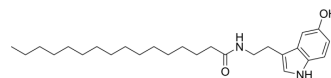


Palmitoyl serotonin

Cat. No.:	HY-131678
CAS No.:	212707-51-2
Molecular Formula:	C ₂₆ H ₄₂ N ₂ O ₂
Molecular Weight:	414.62
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Palmitoyl serotonin is a hybrid molecule patterned after arachidonoyl serotonin, antagonist of FAAH. Palmitoyl serotonin inhibits L-3,4-dihydroxyphenylalanine (HY-N0304) induced abnormal involuntary movements. Palmitoyl serotonin has the potential for the research of parkinson's disease (PD) ^{[1][2]} .								
In Vivo	<p>Palmitoyl serotonin (0.3 mg/kg; daily for 10 days) effectively attenuates the development of L-DOPA-induced dyskinesia (LID) and increases of ERK1/2 phosphorylation and FosB/ΔFosB expression in the hemi-parkinsonian mouse model^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>25-28 g, Eight-week-old male C57BL/6J mice (6-hydroxydopamine (6-OHDA)-induced hemiparkinsonian mouse model)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.3 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>daily for 10 days</td> </tr> <tr> <td>Result:</td> <td>Reduced axial, limb, and locomotive AIM scores on day 10, suppressed the hyper-phosphorylation of ERK1/2 in the 6-OHDA-lesioned striatum, suppressed the overexpression of FosB and ΔFosB in the 6-OHDA-lesioned striatum.</td> </tr> </table>	Animal Model:	25-28 g, Eight-week-old male C57BL/6J mice (6-hydroxydopamine (6-OHDA)-induced hemiparkinsonian mouse model) ^[1]	Dosage:	0.3 mg/kg	Administration:	daily for 10 days	Result:	Reduced axial, limb, and locomotive AIM scores on day 10, suppressed the hyper-phosphorylation of ERK1/2 in the 6-OHDA-lesioned striatum, suppressed the overexpression of FosB and ΔFosB in the 6-OHDA-lesioned striatum.
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REFERENCES

- [1]. Park HY, et al. Palmitoyl Serotonin Inhibits L-dopa-induced Abnormal Involuntary Movements in the Mouse Parkinson Model. *Exp Neurobiol.* 2016 Aug;25(4):174-84.
- [2]. Muthubharathi BC, et al. Physiological and Metabolite Alterations Associated with Neuronal Signals of *Caenorhabditis elegans* during *Cronobacter sakazakii* Infections. *ACS Chem Neurosci.* 2021 Nov 17;12(22):4336-4349.

Caution: Product has not been fully validated for medical applications. For research use only.

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