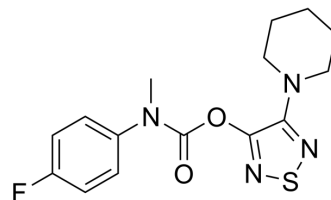


JZP-MA-11

Cat. No.:	HY-152148
CAS No.:	1672691-50-7
Molecular Formula:	C ₁₅ H ₁₇ FN ₄ O ₂ S
Molecular Weight:	336.38
Target:	MAGL
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JZP-MA-11 is a positron emission tomography (PET) ligand targeting the endocannabinoid α/β -hydrolase domain 6 (ABHD6) enzyme. JZP-MA-11 selectively inhibits ABHD6 with an IC ₅₀ value of 126 nM. JZP-MA-11 can cross the blood-brain barrier (BBB). [18F]JZP-MA-11 has the potential for preclinical evaluation targeting the brain ABHD6 in mice and nonhuman primate (NHP) ^[1] .								
In Vitro	JZP-MA-11 (10 μ M) has no effect on Forskolin (HY-15371)-stimulated cAMP in HEK293 cells expressing CB ₁ or CB ₂ ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	JZP-MA-11 (1.5 mg/kg; IV; 20 min before tracer injection) results in a decrease in radioactivity uptake in ABHD6-rich organs such as, brain, liver, heart, and kidneys ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>C57BL6 mice (female, 10-12-week-old)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>1.5 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>IV; 20 min before tracer injection</td> </tr> <tr> <td>Result:</td> <td>Resulted in a decrease in radioactivity uptake in ABHD6-rich organs such as, brain, liver, heart, and kidneys.</td> </tr> </table>	Animal Model:	C57BL6 mice (female, 10-12-week-old) ^[1]	Dosage:	1.5 mg/kg	Administration:	IV; 20 min before tracer injection	Result:	Resulted in a decrease in radioactivity uptake in ABHD6-rich organs such as, brain, liver, heart, and kidneys.
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REFERENCES

[1]. Karine Mardon, et al. Utilizing PET and MALDI Imaging for Discovery of a Targeted Probe for Brain Endocannabinoid α/β -Hydrolase Domain 6 (ABHD6). J Med Chem. 2022 Dec 14.

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

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