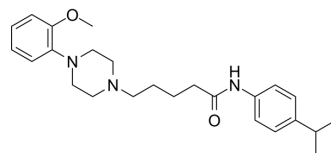


## PDE4B/7A-IN-2

Cat. No.:	HY-146202
CAS No.:	2511632-55-4
Molecular Formula:	C <sub>25</sub> H <sub>35</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	409.56
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	5-HT <sub>1A</sub> /5-HT <sub>7</sub> receptor antagonist (5-HT <sub>1A</sub> K <sub>i</sub> = 8 nM, K <sub>b</sub> = 0.04 nM; 5-HT <sub>7</sub> K <sub>i</sub> = 451 nM, K <sub>b</sub> = 460 nM) with PDE4B/PDE7A inhibitory activity (PDE4B IC <sub>50</sub> = 80.4 μM; PDE7A IC <sub>50</sub> = 151.3 μM), its antidepressant like effect is stronger than that of escitalopram as a reference agent.	
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IC <sub>50</sub> & Target	PDE4	PDE7
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### REFERENCES

[1]. Jankowska A, et al. Novel anilide and benzamide derivatives of arylpiperazinylalkanoic acids as 5-HT<sub>1A</sub>/5-HT<sub>7</sub> receptor antagonists and phosphodiesterase 4/7 inhibitors with procognitive and antidepressant activity. Eur J Med Chem. 2020 Sep 1;201:112437.

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

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