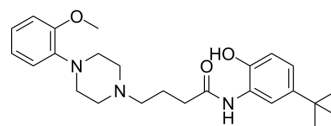


PDE4B/7A-IN-1

Cat. No.:	HY-146201
CAS No.:	2511632-25-8
Molecular Formula:	C ₂₅ H ₃₅ N ₃ O ₃
Molecular Weight:	425.56
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1 a /5-hydroxynitrile rubber 7 receptor antagonist (5-HT1 a k i = 8 nm, kb= 0.04 nm; 5-nitrile rubber 7K I = 451 nm, kb= 460 nm) has pde4b/pde7a inhibitory activity (PDE4B ic50= 80.4 μ M; Pde7a chip 50= 151.3 μ M) Compound 22 has a very good ability of passive penetration of biofilm and high metabolic stability in vitro. In addition, 22's pharmacological evaluation showed its pre cognitive and antidepressant properties in rat behavioral tests.	
IC₅₀ & Target	PDE4	PDE7

REFERENCES

[1]. Jankowska A, et al. Novel anilide and benzylamide derivatives of arylpiperazinylalkanoic acids as 5-HT1A/5-HT7 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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