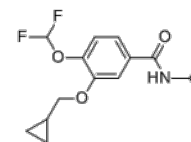


Product Name : FCPR03
Cat. No. : PC-62973
CAS No. : 1917347-65-9
Molecular Formula : C₁₅H₁₉F₂NO₃
Molecular Weight : 299.318
Target : Phosphodiesterase (PDE)
Solubility : 10 mM in DMSO



Biological Activity

FCPR03 is a novel potent, selective **PDE4** inhibitor with IC₅₀ of 60, 31 and 47 nM for PDE4CAT (PDE4 catalytic domain), PDE4B1 and PDE4D7, respectively.

FCPR03 displays >2,000-fold selectivity over other PDEs.

FCPR03 effectively increases the production of cAMP, promotes CREB phosphorylation, and inhibits NF-κB activation both in vitro and in vivo.

FCPR03 displays anti-neuroinflammation potential, promising antidepressant-like effects in vivo.

References

Zou ZQ, et al. *J Pharmacol Exp Ther.* 2017 Jul;362(1):67-77.

Zhou ZZ, et al. *ACS Chem Neurosci.* 2017 Jan 18;8(1):135-146.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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