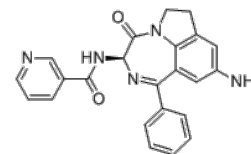


Product Name : CI-1044
Cat. No. : PC-62897
CAS No. : 197894-84-1
Molecular Formula : C₂₃H₁₉N₅O₂
Molecular Weight : 397.438
Target : Phosphodiesterase (PDE)
Solubility : 10 mM in DMSO



Biological Activity

CI-1044 is a potent, selective and orally bioavailable **PDE4** inhibitor with IC₅₀ of 0.27 μM, displays high selectivity for PDE4 versus PDE1/3/5, and no PDE4 subtype (4A-D) selectivities.

CI-1044 exhibits efficient in vitro inhibition of TNFα release from hPBMC and hWB with IC₅₀ of 0.34 and 0.84 μM, respectively.

CI-1044 exhibits potent in vivo activity in antigen-induced eosinophil recruitment in rats (ED₅₀=3.2 mg/kg, p.o.).

References

Burnouf C, et al. *J Med Chem*. 2000 Dec 14;43(25):4850-67.

Ouagued M, et al. *Pulm Pharmacol Ther*. 2005;18(1):49-54.

Hanton G, et al. *Toxicol Lett*. 2008 Jun 10;179(1):15-22.

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

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