

PDE1-IN-9

Chemical Properties

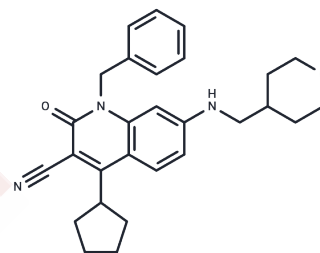
CAS No. : 2982945-41-3

Formula: C₂₈H₃₁N₃O₂

Molecular Weight: 441.57

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	PDE1-IN-9 (Compound 7a) is a selective inhibitor of phosphodiesterase 1 (PDE1), targeting PDE1C with an IC ₅₀ value of 11 nM. It effectively reduces the mRNA expression of IL-1 β , IL-6, TNF- α , and iNOS, while also inhibiting the production of nitric oxide (NO) and reactive oxygen species (ROS). Additionally, PDE1-IN-9 demonstrates good metabolic stability in rat liver microsomes.
Targets(IC ₅₀)	NO Synthase,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2646 mL	11.3232 mL	22.6465 mL
5 mM	0.4529 mL	2.2646 mL	4.5293 mL
10 mM	0.2265 mL	1.1323 mL	2.2646 mL
50 mM	0.0453 mL	0.2265 mL	0.4529 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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