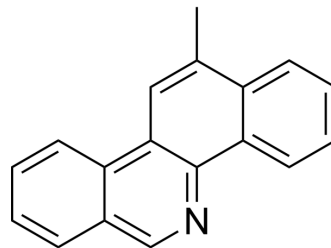


PDE4-IN-10

Cat. No.:	HY-147950
CAS No.:	2413564-66-4
Molecular Formula:	C ₁₈ H ₁₃ N
Molecular Weight:	243.3
Target:	Phosphodiesterase (PDE); TNF Receptor
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PDE4-IN-10 (compound 7a) is a potent PDE4 inhibitor, with an IC ₅₀ of 7.01 μM for PDE4B. PDE4-IN-10 shows selectivity, microsomal stability, inhibition of TNF-α and no major toxicities in vitro ^[1] .	
IC₅₀ & Target	PDE4B 7.01 ± 1.0 μM (IC ₅₀)	PDE4D
In Vitro	PDE4-IN-10 (compound 7a) shows 64.56% inhibition at 10 μM against PDE4B, 54% inhibition at 30 μM but 17% inhibition at 10 μM against PDE4D, indicating its selectivity (~3.8 fold) towards PDE4B over PDE4D ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Bta B, et al. Synthesis of 11,12-dihydro benzo[c]phenanthridines via a Pd-catalyzed unusual construction of isocoumarin ring/FeCl₃-mediated intramolecular arene-allyl cyclization: First identification of a benzo[c]phenanthridine based PDE4 inhibitor - ScienceDirect. Bioorganic Chemistry. April 2020;97:103691.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA