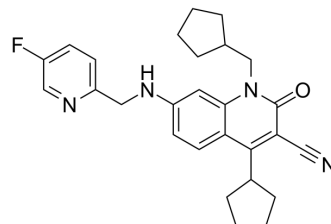


PDE1-IN-5

Cat. No.:	HY-155199
CAS No.:	2982945-34-4
Molecular Formula:	C ₂₇ H ₂₉ FN ₄ O
Molecular Weight:	444.54
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PDE1-IN-5 (Compound 10c) is a selective PDE1C inhibitor (IC ₅₀ : 15 nM). PDE1-IN-5 has anti-inflammatory activity, and inhibits expression of iNOS, TNF- α , IL-1 α , IL-1 β , and IL-6 induced by LPS. PDE1-IN-5 has anti-inflammatory bowel disease (IBD) effects in the dextran sodium sulfate (DSS)-induced colitis mice model. PDE1-IN-5 can be used for research of IBD ^[1] .
IC ₅₀ & Target	15 nM (PDE1C) ^[1]

REFERENCES

[1]. Zhang B, et al. Identification of Novel Quinolin-2(1H)-ones as Phosphodiesterase 1 Inhibitors for the Treatment of Inflammatory Bowel Disease. J Med Chem. 2023 Sep 14;66(17):12468-12478.

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

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