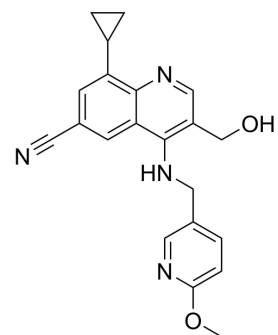


## PDE5-IN-10

Cat. No.:	HY-155687
Molecular Formula:	C <sub>21</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	360.41
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	PDE5-IN-10 (compound 4b) is a potent PDE5 inhibitor with an IC <sub>50</sub> of 20 nM. PDE5-IN-10 improves in vitro microsomal stability (t <sub>1/2</sub> = 44.6 min) as well as excellent efficacy in restoring long-term potentiation. PDE5-IN-10 can be used for Alzheimer's disease (AD) research <sup>[1]</sup> .
IC <sub>50</sub> & Target	PDE5 20 nM (IC <sub>50</sub> )

## REFERENCES

[1]. Elisa Zuccarello, et al. Optimizing metabolic stability of phosphodiesterase 5 inhibitors: Discovery of a potent N-(pyridin-3-ylmethyl)quinoline derivative targeting synaptic plasticity. *Bioorg Med Chem Lett*. 2023 Aug 15;92:129409.

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

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