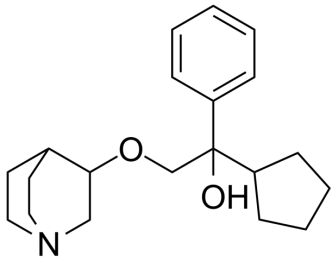
Penehyclidine

Cat. No.:	HY-142119
CAS No.:	87827-02-9
Molecular Formula:	$C_{20}H_{29}NO_2$
Molecular Weight:	315.45
Target:	mAChR; NF-κB
Pathway:	GPCR/G Protein; Neuronal Signaling; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Penehyclidine, a anticholinergic agent, is a selective antagonist of M1 and M3 receptors. Penehyclidine activates NF-kβ in lung tissue and inhibits the release of inflammatory factors. Penehyclidine can alleviate the pulmonary inflammatory response in rats with chronic obstructive pulmonary disease (COPD) undergoing mechanical ventilation[1][2].
IC_{50} & Target	NF-κB

REFERENCES

[1]. Zhi-Yuan Chen, et al. The Mechanism of Penehyclidine Hydrochloride and Its Effect on the Inflammatory Response of Lung Tissue in Rats with Chronic Obstructive Pulmonary Disease During Mechanical Ventilation. Int J Chron Obstruct Pulmon Dis. 2021 Mar 31;16:877-885.

[2]. Xiao HT, et al. Penehyclidine hydrochloride: a potential drug for treating COPD by attenuating Toll-like receptors. Drug Des Devel Ther. 2012;6:317-22.

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