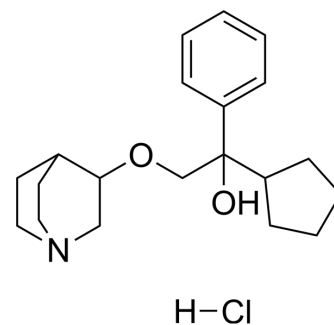


Penehyclidine hydrochloride

Cat. No.:	HY-137976
CAS No.:	151937-76-7
Molecular Formula:	C ₂₀ H ₃₀ ClNO ₂
Molecular Weight:	351.91
Target:	mAChR; NF-κB
Pathway:	GPCR/G Protein; Neuronal Signaling; NF-κB
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Penehyclidine (Penequinine) hydrochloride, an anticholinergic agent, is a selective antagonist of M1 and M3 receptors. Penehyclidine hydrochloride activates NF-κβ in lung tissue and inhibits the release of inflammatory factors. Penehyclidine hydrochloride can alleviate the pulmonary inflammatory response in rats with chronic obstructive pulmonary disease (COPD) undergoing mechanical ventilation ^[1] .		
IC₅₀ & Target	mAChR1	mAChR3	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.

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

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