## PNU-177864 hydrochloride

MedChemExpress

Cat. No.:	HY-103406A		
CAS No.:	1783978-03-9		
Molecular Formula:	C <sub>18</sub> H <sub>22</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S	P S H H-Cl	
Molecular Weight:	438.89		
Target:	Dopamine Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		

Product Data Sheet

BIOLOGICAL ACTIVITY				
Description	PNU-177864 hydrochloride is a potent, selective and orally active dopamine D <sub>3</sub> receptor antagonist. PNU-177864 hydrochloride is structurally consistent with a cationic amphiphilic agent (CAD) and induces phospholipidosis in vivo. PNU-177864 hydrochloride antischizophrenic activity <sup>[1][2]</sup> .			
IC <sub>50</sub> & Target	D <sub>3</sub> Receptor			
In Vivo	PNU-177864 (12.5-200 mg/kg; oral gavage; daily; for 2-4 weeks; Sprague-Dawley rats) treatment induces phospholipidosis in unusual target organs in dogs or rats including epididymis, pituitary, and hair follicles <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Dosage:	Male and female Sprague-Dawley rats (8-9-week-old) <sup>[1]</sup> 12.5 mg/kg, 50 mg/kg (for 2 weeks), or 200 mg/kg; 8 mg/kg, 25 mg/kg, or 80 mg/kg (for 4 weeks)		
	Administration:	Oral gavage; daily; for 2-4 weeks		
	Result:	Induced phospholipidosis in unusual target organs in dogs or rats including epididymis, pituitary, and hair follicles.		

## REFERENCES

[1]. Rudmann DG, et al. Epididymal and systemic phospholipidosis in rats and dogs treated with the dopamine D3 selective antagonist PNU-177864. Toxicol Pathol. 2004 May-Jun;32(3):326-32.

[2]. Vonderfecht SL, et al. Myopathy related to administration of a cationic amphiphilic drug and the use of multidose drug distribution analysis to predict its occurrence. Toxicol Pathol. 2004 May-Jun;32(3):318-25.

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

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