PNU-177864 hydrochloride

Cat. No.: HY-103406A
CAS No.: 1783978-03-9
Molecular Formula: C₁₈H₂₂ClF₃N₂O₃S
Molecular Weight: 438.89
Target: Dopamine Receptor
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
PNU-177864 hydrochloride is a potent, selective and orally active dopamine D₃ receptor antagonist. PNU-177864 hydrochloride is structurally consistent with a cationic amphiphilic drug (CAD) and induces phospholipidosis in vivo. PNU-177864 hydrochloride antischizophrenic activity[1][2].

IC₅₀ & Target
D₃ 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[1].

Animal Model:
Male and female Sprague-Dawley rats (8-9-week-old)[1]

Dosage:
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


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