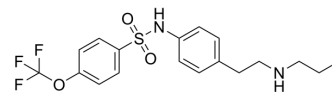


PNU-177864

| | | | |
|--------------------|--|-------|----------|
| Cat. No.: | HY-103406 | | |
| CAS No.: | 250266-51-4 | | |
| Molecular Formula: | C ₁₈ H ₂₁ F ₃ N ₂ O ₃ S | | |
| Molecular Weight: | 402.43 | | |
| Target: | Dopamine Receptor | | |
| Pathway: | GPCR/G Protein; Neuronal Signaling | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



BIOLOGICAL ACTIVITY

| | | | |
|--------------------|---|--|--|
| Description | PNU-177864 is a potent, selective and orally active dopamine D ₃ receptor antagonist. PNU-177864 is structurally consistent with a cationic amphiphilic agent (CAD) and induces phospholipidosis in vivo. PNU-177864 antischizophrenic activity ^{[1][2]} . | | |
| 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |
| | 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

[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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