

Product Name	: THPP-1
Synonyms	: —
Cat No.	: M22050
CAS Number	: 1257051-63-0
Molecular Formula	: C ₂₃ H ₂₁ ClN ₆ O ₃
Formula Weight	: 464.9
Chemical Name	: —
Description	<p>THPP-1 is a potent and orally bioavailable inhibitor of PDE10A (K_i of 1 nM and 1.3 nM for human and rat PDE10A, respectively). Consistent with rodent data, both THPP-1 and risperidone significantly attenuated the stimulant effects in SIMA when administered alone, though some differences were noted. Combination therapy with a low dose of risperidone produced significantly more robust effects. THPP-1 and risperidone also produced a marked reduction of wake cycle time and gamma frequency power in EEG. However, THPP-1 differed from risperidone by reducing spectral power of lower frequencies.</p>
Pathway	: Angiogenesis
Target	: PDE
Receptor	: PDE10A
Solubility	: DMSO:31 mg/mL (66.68 mM; Need ultrasonic)
SMILES	: <chem>COCCOC1=C2CN(CCC2=NC(=N1)C1=CC=C(Cl)N=C1)C(=O)C1=C2C=CC=CN2C=N1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Vardigan JD, et al. Behavioral and qEEG effects of the PDE10A inhibitor THPP-1 in a novel rhesus model of antipsychotic activity. Psychopharmacology (Berl). 2016 Jul;233(13):2441-50.