

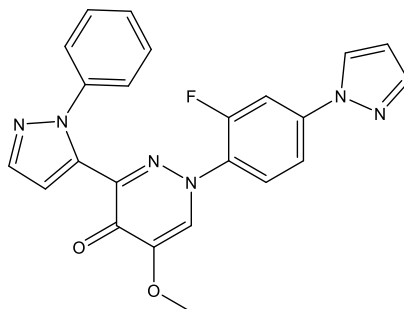
Catalog # 10-4364

TAK-063

CAS# 1238697-26-1

1-(2-Fluoro-4-pyrazol-1-ylphenyl)-5-methoxy-3-(2-phenylpyrazol-3-yl)pyridazin-4-one; Balipodect

Lot # FBS5033



TAK-063 is a potent ($IC_{50} = 0.3$ nM), selective, and orally bioavailable inhibitor of phosphodiesterase 10A (PDE10A).¹ It increased levels of cAMP and cGMP in mice and suppressed PCP-induced hyperlocomotion in mice. TAK-063 displayed antipsychotic-like activity in rats.² It also displayed neuroprotective effects and ameliorated behavioral deficits in a mouse model of Huntington's Disease.³ TAK-063 has displayed neuroprotective effects in mouse models of ischemic stroke.^{4,5}

- 1) Kunitomo *et al.* (2014), *Discovery of 1-[2-fluoro-4-(1H-pyrazol-1-yl)phenyl]-5-methoxy-3-(1-phenyl-1H-pyrazol-5-yl)pyridazine-4(1H)-one (TAK-063), a highly potent, selective, and orally active phosphodiesterase 10A (PDE10A) inhibitor*; J. Med. Chem. **57** 9627
- 2) Suzuki *et al.* (2015), *In vivo pharmacological characterization of TAK-063, a potent and selective phosphodiesterase 10A inhibitor with antipsychotic-like activity in rats*; J. Pharmacol. Exp. Ther. **352** 471
- 3) Harada *et al.* (2017), *TAK-063, a Novel Phosphodiesterase 10A Inhibitor, Protects from Striatal Neurodegeneration and Ameliorates Behavioral Deficits in the R6/2 Mouse Model of Huntington's Disease*; J. Pharmacol. Exp. Ther. **360** 75
- 4) Beker *et al.* (2022), *Phosphodiesterase 10A is a Critical Target for Neuroprotection in a Mouse Model of Ischemic Stroke*; Mol. Neurobiol. **59** 574
- 5) Beker *et al.* (2022), *Phosphodiesterase 10A deactivation induces long-term neurological recovery, Peri-infarct remodeling and pyramidal tract plasticity after transient focal cerebral ischemia in mice*; Exp. Neurol. **358** 114221

PHYSICAL DATA

Molecular Weight:	428.43
Molecular Formula:	C ₂₃ H ₁₇ FN ₆ O ₂
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (25 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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