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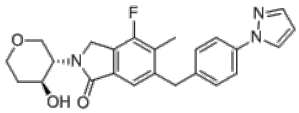
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TAK-071
Cat. No.	:	PC-35576
CAS No.	:	1820812-16-5
Molecular Formula	:	$C_{24}H_{24}FN_3O_3$
Molecular Weight	:	421.472
Target	:	mAChR
Solubility	:	10 mM in DMSO



Biological Activity

TAK-071 (TAK071) is a potent, selective, low cooperativity (α-value) positive allosteric modulator of muscarinic **M1** receptor with inflection point of 2.7 nM in Ca2+ flux assays in CHO-K1 cells.
TAK-071 displays >370-fold M1R selectivity over other muscarinic receptors.
TAK-071 selectively induces afterdepolarization in prefrontal cortical pyramidal neurons significantly ameliorates scopolamine-induced cognitive deficits in rats combined with acetylcholinesterase inhibitor donepezil, with minimizing peripheral cholinergic side effects.

References

Sako Y, et al. ***Neuropsychopharmacology***. 2018 Aug 1. doi: 10.1038/s41386-018-0168-8.

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