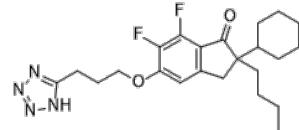


Product Name : DCY1040
Cat. No. : PC-25469
CAS No. :
Molecular Formula : C₂₃H₃₀F₂N₄O₂
Molecular Weight : 432.52
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

DCY1040 is a potent, specific small molecule agonist of transmembrane protein 175 (**TMEM175**) with EC₅₀ of 3.0 uM and 105.9-fold potentiation, directly binds to TMEM175. DCY1040 and TUG-891 synergistically activate TMEM175. DCY1040 activates TMEM175 more effectively than DCPIB (Cat# PC-72941). DCY1040 restores PD-related variants in TMEM175. DCY1040 promotes the removal of aberrant α -synuclein both in vitro and in vivo.

References

Xuewu Zhu, et al. Structural insights into the activation of TMEM175 by small molecule. **Neuron**. 2025 Aug 22:S0896-6273(25)00556-2.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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