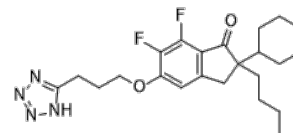


**Product Name** : DCY1040  
**Cat. No.** : PC-25469  
**CAS No.** :  
**Molecular Formula** : C<sub>23</sub>H<sub>30</sub>F<sub>2</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 432.52  
**Target** : Potassium Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

DCY1040 is a potent, specific small molecule agonist of transmembrane protein 175 (**TMEM175**) with EC<sub>50</sub> 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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