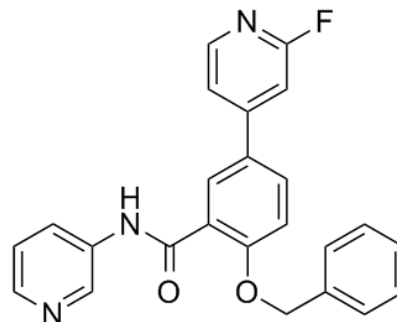


Product Name : GSK2578215A
Cat. No. : PC-43416
CAS No. : 1285515-21-0
Molecular Formula : C₂₄H₁₈FN₃O₂
Molecular Weight : 399.417
Target : LRRK2
Solubility : 10 mM in DMSO



Biological Activity

GSK2578215A is a highly potent, selective, BBB-permeable **LRRK2** inhibitor with IC₅₀ of 10.9 and 9.9 nM for wild-type LRRK2 and the G2019S mutant, respectively.

GSK2578215A shows 8-fold reduced potency against A2016T mutant LRRK2 (IC₅₀=81 nM).

GSK2578215A inhibits Ser910 and Ser935 phosphorylation in both wild-type LRRK2 and LRRK2 G2019S stably transfected into HEK293 cells at 0.1-0.3 μM, also induces dephosphorylation of Ser910 and 935 at 1-3 μM in the inhibitor-resistant LRRK2[A2016T+ G2019S] and LRRK2 [A2016T] mutants.

GSK2578215A induces protective autophagy in SH-SY5Y cells.

References

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Saez-Atienzar S, et al. *Cell Death Dis*. 2014 Aug 14;5:e1368.

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

E-mail: tech@probechem.com