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Data Sheet

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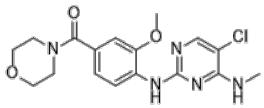
Product Name	:	HG-10-102-01
Cat. No.	:	PC-22264
CAS No.	:	1351758-81-0
Molecular Formula	:	$C_{17}H_{20}ClN_5O_3$
Molecular Weight	:	377.83
Target	:	LRRK2
Solubility	:	10 mM in DMSO



CAS: 1351758-81-0

Biological Activity

HG-10-102-01 is a potent and selective inhibitor of wild-type LRRK2 and LRRK2 G2019S mutant with IC50 of 20.3 nM and 3.2 nM, respectively.
HG-10-102-01 is capable of inhibiting LRRK2 phosphorylation in mouse brain.
HG-10-102-01 maintains inhibition of the A2016T mutation (IC50=153.7 nM), which induces dramatic resistance to LRRK2-IN-1.
HG-10-102-01 (0.03-1 uM) induced a dose-dependent inhibition of Ser910 and Ser935 phosphorylation in both wild-type LRRK2 and LRRK2[G2019S] stably transfected into HEK293 cells.
HG-10-102-01 also induced dephosphorylation of Ser910 and Ser935 at a concentration of 1-3 μM in the drug-resistant LRRK2[A2016T + G2019S] and LRRK2[A2016T] mutants.
HG-10-102-01 is capable of inhibiting Ser910 and Ser935 phosphorylation in mouse brain following intraperitoneal delivery of doses as low as 50 mg/kg.

References

Choi HG, et al. ACS Med Chem Lett. 2012 Aug 9;3(8):658-662.

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