## (R,R)-LRRK2-IN-7

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-152107A 2307277-92-3 C <sub>24</sub> H <sub>26</sub> N <sub>6</sub> O 414.5 LRRK2 Autophagy Please store the product under the recommended conditions in the Certificate of	
	Analysis.	

Description	(R,R)-LRRK2-IN-7 is the isomer of LRRK2-IN-7 (HY-152107). LRRK2-IN-7 is a potent, selective, and CNS-penetrant LRRK2 kinase inhibitor with an IC50 of 0.9 nM. LRRK2-IN-7 shows >1000-fold selectivity over other kinases, ion channels, and CYP enzymes.	
IC <sub>50</sub> & Target	IC50: 0.9 nM (LRRK2 Kinase) <sup>[1]</sup>	
In Vitro	LRRK2-IN-7 (compound 25) is both a mouse breast cancer resistance protein (BCRP) substrate (mouse/human BCRP) and a potent human BCRP inhibitor (BCRP IC <sub>50</sub> = $0.12 \mu$ M) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	In a 7 day rat dose limiting toxicity study, LRRK2-IN-7 (compound 25) is tolerated with no significant histopathology findings up to 100 mg/kg once a day (AUC <sub>tot</sub> = 330 μM·h) <sup>[1]</sup> . In an acute (2 h) rat PK/PD study, LRRK2-IN-7 (compound 25) demonstrates a dose-dependent decrease in LRRK2 pS935 in rat brain striatum with an EC <sub>50</sub> = 0.18 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. David A Candito, et al. Discovery and Optimization of Potent, Selective, and Brain-Penetrant 1-Heteroaryl-1 H-Indazole LRRK2 Kinase Inhibitors for the Treatment of Parkinson's Disease. J Med Chem. 2022 Dec 22;65(24):16801-16817.

Caution: Product has not been fully validated for medical applications. For research use only.

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**Product** Data Sheet

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