## PFE-360

Cat. No.:	HY-120085		
CAS No.:	1527475-61	-1	
Molecular Formula:	$C_{16}H_{16}N_{6}O$		
Molecular Weight:	308.34		
Target:	LRRK2		
Pathway:	Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 10.42 mg/mL (33.79 mM; Need ultrasonic)					
Preparing Stock Solution	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.2432 mL	16.2159 mL	32.4317 mL	
		5 mM	0.6486 mL	3.2432 mL	6.4863 mL	
		10 mM	0.3243 mL	1.6216 mL	3.2432 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.04 mg/mL (3.37 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.04 mg/mL (3.37 mM); Clear solution					
	<ol> <li>Add each solvent of Solubility: ≥ 1.04 n</li> </ol>	one by one: 10% DMSO >> 90% cor ng/mL (3.37 mM); Clear solution	n oil			

BIOLOGICAL ACTIV	
Description	PFE-360 (PF-06685360) is a potent, selective, brain penetrated and orally active leucine-rich repeat kinase 2 (LRRK2) inhibitor with a mean IC <sub>50</sub> of 2.3 nM in vivo <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	IC50: 2.3 nM (LRRK2 in vivo) <sup>[1][2]</sup> .
In Vivo	PFE-360 (4 mg/kg and 7.5 mg/kg, orally, BID, 10-12 weeks) treatment potently decreases the LRRK2-pSer935/total LRRK2 ratio, with no significant adverse effects <sup>[1]</sup> .

# Product Data Sheet

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Animal Model:	Female Sprague Dawley rats (NTac:SD) weighed 225-250 $g^{[3]}$ .
Dosage:	4 mg/kg and 7.5 mg/kg (pharmacokinetics and pharmacodynamics).
Administration:	Orally BID for 10-12 weeks.
Result:	The LRRK2-pSer935/total LRRK2 ratio was significantly decreased at both 1 h and 12 h after dosing.
	The terminal bodyweights exhibited no significant changes.

### **CUSTOMER VALIDATION**

- Stem Cell Reports. 2022 Sep 12;S2213-6711(22)00423-4.
- Front Cell Dev Biol. 2020 Oct 28;8:594090.

See more customer validations on www.MedChemExpress.com

### REFERENCES

[1]. Marco A.S. Baptista, et al. LRRK2 Kinase Inhibitors of Different Structural Classes Induce Abnormal Accumulation of Lamellar Bodies in Type II Pneumocytes in Non-Human Primates but are Reversible and Without Pulmonary Functional Consequences.

[2]. Andersen MA, et al. Parkinson's disease-like burst firing activity in subthalamic nucleus induced by AAV-α-synuclein is normalized by LRRK2 modulation. Neurobiol Dis. 2018 Aug;116:13-27.

[3]. Andersen MA, et al. PFE-360-induced LRRK2 inhibition induces reversible, non-adverse renal changes in rats. Toxicology. 2018 Feb 15;395:15-22.

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

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