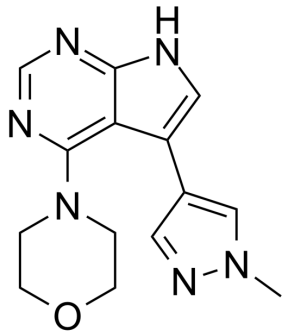
PF-06454589

Cat. No.:	HY-112855
CAS No.:	1527473-30-8
Molecular Formula:	$C_{14}H_{16}N_6O$
Molecular Weight:	284.32
Target:	LRRK2
Pathway:	Autophagy
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 15.62 mg/mL (54.94 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5172 mL	17.5858 mL	35.1716 mL
	5 mM	0.7034 mL	3.5172 mL	7.0343 mL
	10 mM	0.3517 mL	1.7586 mL	3.5172 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (4.40 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (4.40 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (4.40 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PF-06447475 is a highly potent, selective, brain penetrant LRRK2 kinase inhibitor with IC_{50} values of 3 nM and 11 nM for WT LRRK and G2019S LRRK2, respectively. PF-06447475 can be used for parkinson's disease (PD) research[1].

REFERENCES

[1]. Jaclyn L Henderson, et al. Discovery and preclinical profiling of 3-[4-(morpholin-4-yl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]benzonitrile (PF-06447475), a highly potent, selective, brain penetrant, and in vivo active LRRK2 kinase inhibitor. J Med Chem. 2015 Jan 8;58(1):419-32.

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