



LKT Laboratories, Inc.

PF-06447475

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)

Web: [lktlabs.com](http://lktlabs.com)

## Product Information

**Product ID** P2100

**CAS No.** 1527473-33-1

**Chemical Name** 3-[4-(4-Morpholinyl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]benzonitrile

**Synonym**

**Formula** C<sub>17</sub>H<sub>15</sub>N<sub>5</sub>O

**Formula Wt.** 305.13

**Melting Point**

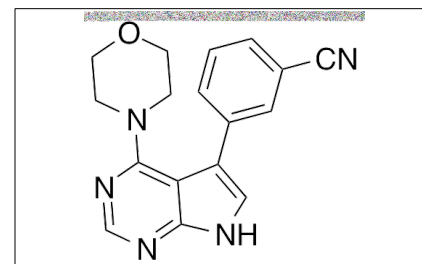
**Purity** ≥98%

**Solubility** DMSO 61 mg/mL  
Water Insoluble  
Ethanol Insoluble

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** PF-06447475 inhibits leucine-rich repeat kinase 2 (LRRK2), exhibiting neuroprotective activity. In animal models of Parkinson's disease, this compound suppresses neuroinflammation and neurodegeneration.



**Bulk quantities available upon request**

Product ID	Size
P2100	5 mg
P2100	25 mg

**References** Daher JP, Abdelmotilib HA, Hu X, et al. LRRK2 Pharmacological Inhibition Abates  $\alpha$ -Synuclein Induced Neurodegeneration. J Biol Chem. 2015 Jun 15. [Epub ahead of print]. PMID: 26078453.

Henderson JL, Kormos BL, Hayward MM, 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. PMID: 25353650.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.