

PF-249

## Chemical Properties

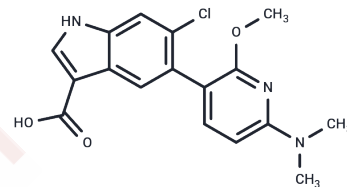
CAS No. : 1467059-70-6

Formula: C<sub>17</sub>H<sub>16</sub>ClN<sub>3</sub>O<sub>3</sub>

Molecular Weight: 345.78

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	PF-249 (PF-06685249) is a $\beta$ 1-selective AMPK with an EC <sub>50</sub> of 12 nM for AMPK $\alpha$ 1 $\beta$ 1 $\gamma$ 1 and can be used in studies about diabetic nephropathy.
Targets(IC50)	AMPK

## Solubility Information

Solubility	DMSO: 90 mg/mL (260.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.892 mL	14.4601 mL	28.9201 mL
5 mM	0.5784 mL	2.892 mL	5.784 mL
10 mM	0.2892 mL	1.446 mL	2.892 mL
50 mM	0.0578 mL	0.2892 mL	0.5784 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Cokorinos EC, et al. Activation of Skeletal Muscle AMPK Promotes Glucose Disposal and Glucose Lowering in Non-human Primates and Mice. *Cell Metab.* 2017 May 2;25(5):1147-1159.e10.

Willows R, et al. Effect of different  $\gamma$ -subunit isoforms on the regulation of AMPK. *Biochem J.* 2017 May 9;474(10):1741-1754.

Salatto CT, et al. Selective Activation of AMPK  $\beta$ 1-Containing Isoforms Improves Kidney Function in a Rat Model of Diabetic Nephropathy. *J Pharmacol Exp Ther.* 2017 May;361(2):303-311.

David J Edmonds, et al. Optimization of Metabolic and Renal Clearance in a Series of Indole Acid Direct Activators of 5'-Adenosine Monophosphate-Activated Protein Kinase (AMPK). *J Med Chem.* 2018 Mar 22;61(6):2372-2383.

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