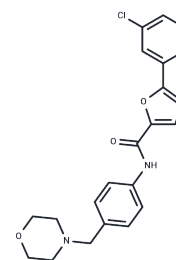


CID 2011756

## Chemical Properties

CAS No. : 638156-11-3  
 Formula: C<sub>22</sub>H<sub>21</sub>ClN<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 396.87  
 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	CID 2011756 is an ATP-competitive and specific PKD1 inhibitor.
Targets(IC50)	Serine/threonin kinase
Kinase Assay	Ub-PLA2 assay: Recombinant enzymes in 20 mM Tris-HCl, pH 8.0, 2 mM CaCl <sub>2</sub> and 2 mM β-mercaptoethanol (DUB assay buffer) are preincubated with single doses or dose ranges of PR-619 or P22077 for 30 minutes in a 96 well plate before the addition of Ub-PLA2 and NBD C6-HPC. The liberation of a fluorescent product within the linear range of the assay is monitored at room temperature using a fluorescence plate reader. Vehicle (2%(v/v) DMSO) and 10 mM N-ethylmaleimide are included as controls. Where ≥60% inhibition is observed, EC <sub>50</sub> values are determined using a sigmoidal dose response equation.

## Solubility Information

Solubility	DMSO: 15 mg/mL (37.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.04 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.5197 mL	12.5986 mL	25.1972 mL
5 mM	0.5039 mL	2.5197 mL	5.0394 mL
10 mM	0.252 mL	1.2599 mL	2.5197 mL
50 mM	0.0504 mL	0.252 mL	0.5039 mL

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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

Sharlow ER, et al. PLoS One. 2011;6(10):e25134.

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