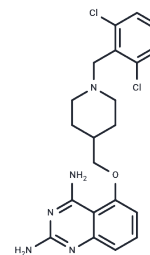


Rg3039

## Chemical Properties

CAS No. : 1005504-62-0  
 Formula: C<sub>21</sub>H<sub>23</sub>Cl<sub>2</sub>N<sub>5</sub>O  
 Molecular Weight: 432.35  
 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	Rg3039 (PF-06687859) is a potent DcpS inhibitor. DcpS is a therapeutic target for spinal muscular atrophy. Spinal muscular atrophy (SMA) is caused by deletion or mutation of both copies of the SMN1 gene which produces an essential protein known as SMN. RG3039 improves motor function in SMA mice. RG3039 also showed activity to improve survival, function and motor unit pathologies in two SMA mouse models.
Targets(IC50)	Others,DNA/RNA Synthesis

## Solubility Information

Solubility	H <sub>2</sub> O: < 0.1 mg/mL (insoluble), DMSO: 2.69 mg/mL (6.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.27 mg/mL (0.62 mM),Solution. <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

	1mg	5mg	10mg
1 mM	2.3129 mL	11.5647 mL	23.1294 mL
5 mM	0.4626 mL	2.3129 mL	4.6259 mL
10 mM	0.2313 mL	1.1565 mL	2.3129 mL
50 mM	0.0463 mL	0.2313 mL	0.4626 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

Rocky G. Gogliotti, et al. Hum Mol Genet. 2013 Oct 15; 22(20): 4084-4101.

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