

BL-918

Chemical Properties

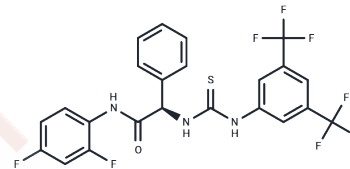
CAS No. : 2101517-69-3

Formula: C₂₃H₁₅F₈N₃O₅

Molecular Weight: 533.44

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	BL-918 is a potent activator of UNC-51-like kinase 1 (ULK1) with an EC ₅₀ of 24.14 nM.
Targets(IC ₅₀)	Autophagy

Solubility Information

Solubility	DMSO: 135 mg/mL (253.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (3.75 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (18.75 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	1.8746 mL	9.3731 mL	18.7463 mL
5 mM	0.3749 mL	1.8746 mL	3.7493 mL
10 mM	0.1875 mL	0.9373 mL	1.8746 mL
50 mM	0.0375 mL	0.1875 mL	0.3749 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

Ouyang L, et al. Small-Molecule Activator of UNC-51-Like Kinase 1 (ULK1) That Induces Cytoprotective Autophagy for Parkinson's Disease Treatment. J Med Chem. 2018 Apr 12;61(7):2776-2792.

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