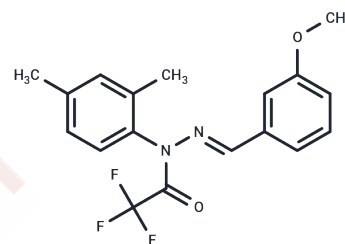


J-147

## Chemical Properties

CAS No. : 1146963-51-0  
 Formula: C<sub>18</sub>H<sub>17</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 350.33  
 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	J-147 is an experimental drug with reported effects against both Alzheimer's disease and ageing in mouse models of accelerated aging. It is a curcumin derivative and a potent neurogenic and neuroprotective drug candidate initially developed for the treatment of neurodegenerative conditions associated with aging that impacts many pathways implicated in the pathogenesis of diabetic neuropathy.
Targets(IC50)	Epigenetic Reader Domain,Dopamine Receptor,Monoamine Oxidase

## Solubility Information

Solubility	DMSO: 45 mg/mL (128.45 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: 1 mg/mL (2.85 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	2.8545 mL	14.2723 mL	28.5445 mL
5 mM	0.5709 mL	2.8545 mL	5.7089 mL
10 mM	0.2854 mL	1.4272 mL	2.8545 mL
50 mM	0.0571 mL	0.2854 mL	0.5709 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

Lapchak PA, et al. J Neurol Neurophysiol. 2013 Aug;4(3). pii: 158.

Yu Z, Kong D, Liang Y, et al. Protective effects of VMY-2-95 on corticosterone-induced injuries in mice and cellular models. Acta Pharmaceutica Sinica B. 2021

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