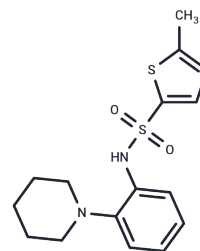


MK6-83

## Chemical Properties

CAS No. : 1062271-24-2  
Formula: C<sub>16</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>  
Molecular Weight: 336.47  
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	MK6-83 is the transient receptor potential channel ML3 agonist.
Targets(IC50)	TRP/TRPV Channel
In vitro	MK6-83(0.2-30 μM) shows no signs of cytotoxicity[1]. Administration of 0-10 μM MK6-83 for 24 hours is efficacious on fibroblast lysosomes isolated from R403C or V446L expressing cells and has no significant effect on lysosomes isolated from TRPML1-/- fibroblasts[1].

## Solubility Information

Solubility	DMSO: 22.5 mg/mL (66.87 mM), Sonication and heating to 60°C are 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 (5.94 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.972 mL	14.8602 mL	29.7203 mL
5 mM	0.5944 mL	2.972 mL	5.9441 mL
10 mM	0.2972 mL	1.486 mL	2.972 mL
50 mM	0.0594 mL	0.2972 mL	0.5944 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

Chen CC, Keller M et al. A small molecule restores function to TRPML1 mutant isoforms responsible for mucopolipidosis type IV. Nat Commun. 2014 Aug 14;5:4681.

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