

## Mdivi-1(Mitochondrial division inhibitor 1)

### Product parameters

品名	货号	规格
Mdivi-1	MM967876	100MG
		200MG

### Product Data Sheet

Cat No.:	MM967876	Cas No.:	338967-87-6
Product Name:	Mitochondrial division inhibitor		
Chemical Name:	3-(2,4-dichloro-5-methoxyphenyl)-2-sulfanylidene-1H-quinazolin-4-one		
MF:	C <sub>15</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub> S	FW:	353.22
Purity:	98%	Batch No.:	K074286
Storage:	2-8° C		
Structural Formula:			
SMILES:	<chem>COC1=C(C=C(C(=C1)N2C(=O)C3=CC=CC=C3NC2=S)Cl)Cl</chem>		
InChi Code:	InChI=1S/C15H10Cl2N2O2S/c1-21-13-7-12(9(16)6-10(13)17)19-14(20)8-4-2-3-5-11(8)18-15(19)22/h2-7H,1H3,(H,18,22)		
InChi Key:	NZJKEVWTYMOYOR-UHFFFAOYSA-N		
<b>WARNING This product is not for human or veterinary use.</b>			

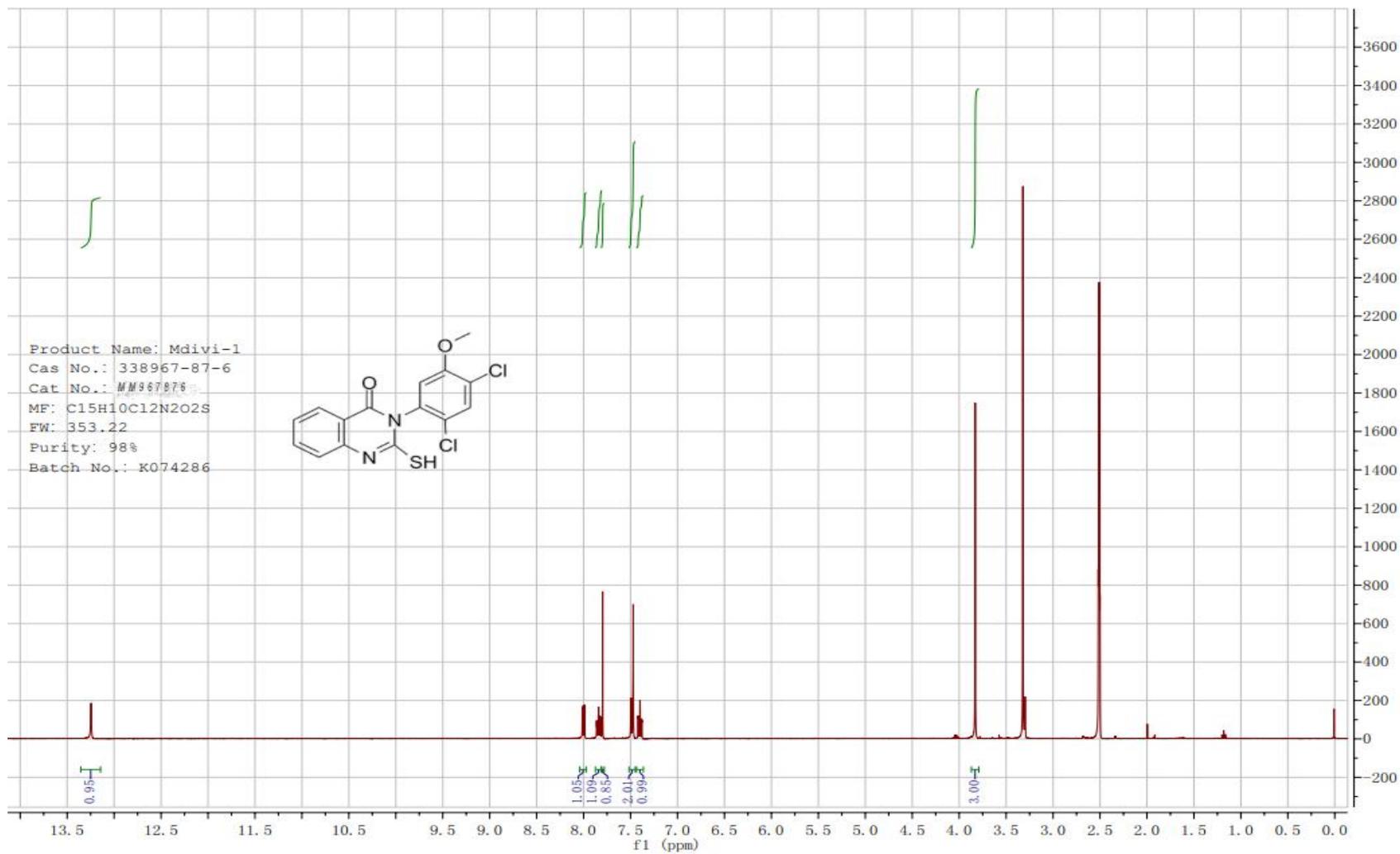
## Product Description

Mdivi-1 is a selective dynamin-related protein 1 (Drp1) inhibitor. Mdivi-1 is a mitochondrial division /mitophagy inhibitor.

Solubility Data					
	Preparation of stock solution	Solvent	1 mg	5 mg	10mg
		Concentration	Mass		
In Vitro:		<b>1mM</b>	2.8311 mL	14.1555 mL	28.3110 mL
		<b>5mM</b>	0.5662 mL	2.8311 mL	5.6622 mL
		<b>10mM</b>	0.2831 mL	1.4155 mL	2.8311 mL
<p>DMSO : 160 mg/mL (452.98 mM; Need ultrasonic)</p> <p>Please choose a suitable solvent to prepare the stock solution according to the solubility of the product in different solvents; the product is unstable in solution state, so we recommend that you use it as it is.</p>					
In Vivo:	<p>Please select the appropriate dissolution protocol for your animals and dosing regimen. For all of the following dissolution protocols, please prepare a clarified stock solution according to the In Vitro protocol and then add the co-solvent sequentially:</p> <p>To ensure the reliability of the experimental results, the clarified stock solution can be stored appropriately according to the storage conditions; for in vivo experiments, it is recommended that you prepare the solution as is and use it on the same day; the percentages shown before the solvents below refer to the percentage of the volume of the solvent in your final solution; if precipitation or precipitation occurs during the preparation process, it can be assisted by heating and/or sonication.</p> <p>1. Add each solvent in order: 17% Polyethylene glycol 12-hydroxystearate in saline Solubility: 10 mg/mL (28.31 mM); Suspended solution; Need ultrasonic</p> <p>2. Please add each solvent in order: 10% DMSO → 40% PEG300 → 5% Tween-80 → 45% saline Solubility: ≥ 4 mg/mL (11.32 mM); Clear solution</p> <p>This solution gives a clear solution of ≥ 4 mg/mL (11.32 mM, saturation unknown).</p> <p>For 1 mL of working solution, add 100 μL of 40.0 mg/mL of clarified DMSO stock solution to 400 μL of PEG300 and mix well; add 50 μL of LTween-80 to the above system and mix well; then add 450 μL of saline solution to a volume of 1 mL.</p> <p>3. Add each solvent in the following order: 0.5% CMC-Na/saline water Solubility: 2.5 mg/mL (7.08 mM); Suspended solution; Need ultrasonic</p>				

### Note

not for any individual or non-scientific research, non-drug license application and other purposes Provide services.



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