

ARP 101

## Chemical Properties

CAS No. : 849773-63-3

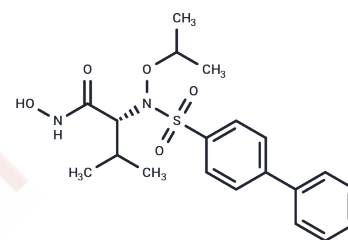
Formula: C<sub>20</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub>S

Molecular Weight: 406.5

Keep away from moisture

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	ARP 101 is an effective selective matrix metalloproteinase-2 (MMP-2) inhibitor with anti-cancer activity. It induces the inhibition of HCMV through non-classical chelate 1 (SQSTM1)/p62-Keap1-Nrf2 pathways and phosphorylation of the C-terminal domain of p62, regulating autophagy and inhibiting melanogenesis.
Targets(IC50)	Apoptosis,MMP,ATG,p62

## Solubility Information

Solubility	DMSO: 80 mg/mL (196.8 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: 3.3 mg/mL (8.12 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	2.460 mL	12.3001 mL	24.6002 mL
5 mM	0.492 mL	2.460 mL	4.920 mL
10 mM	0.246 mL	1.230 mL	2.460 mL
50 mM	0.0492 mL	0.246 mL	0.492 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

Jo YK, et al. ARP101, a selective MMP-2 inhibitor, induces autophagy-associated cell death in cancer cells. *Biochem Biophys Res Commun*. 2011 Jan 28;404(4):1039-43.

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