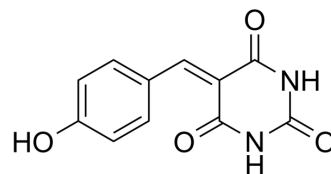


MHY-1685

Cat. No.:	HY-141805		
CAS No.:	27406-31-1		
Molecular Formula:	C ₁₁ H ₈ N ₂ O ₄		
Molecular Weight:	232.19		
Target:	mTOR		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (269.18 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.3068 mL	21.5341 mL	43.0682 mL
		5 mM	0.8614 mL	4.3068 mL	8.6136 mL
10 mM		0.4307 mL	2.1534 mL	4.3068 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (8.96 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	MHY-1685, a novel mammalian target of rapamycin (mTOR) inhibitor, provides opportunities to improve hCSC-based myocardial regeneration.
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REFERENCES

[1]. Park JH, et al. Human cardiac stem cells rejuvenated by modulating autophagy with MHY-1685 enhance the therapeutic potential for cardiac repair. *Exp Mol Med.* 2021 Sep;53(9):1423-1436.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA