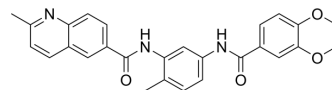


CCT245232

Cat. No.:	HY-144867		
CAS No.:	1693731-14-4		
Molecular Formula:	C ₂₇ H ₂₃ N ₃ O ₄		
Molecular Weight:	453.49		
Target:	HSP		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (91.89 mM); ultrasonic and warming and heat to 60°C

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2051 mL	11.0256 mL	22.0512 mL
5 mM	0.4410 mL	2.2051 mL	4.4102 mL
10 mM	0.2205 mL	1.1026 mL	2.2051 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (4.59 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

CCT245232 is a potent inhibitor of heat shock factor 1 (HSF1). HSF1 is the master regulator of the heat shock response, in which multiple genes are induced in response to temperature increase and other stresses. CCT245232 has the potential for the research of proliferative diseases, such as cancer (extracted from patent WO2015049535A1)^[1].

REFERENCES

- [1]. Keith Jones, et al. Fused 1,4-dihydrodioxin derivatives as inhibitors of heat shock transcription factor 1. Patent WO2015049535A1.

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

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