BMS-986299

Cat. No.:	HY-139396		
CAS No.:	2242952-69	-6	
Molecular Formula:	C ₁₈ H ₁₉ N ₇ O		
Molecular Weight:	349.39		
Target:	NOD-like Receptor (NLR)		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.8621 mL	14.3107 mL	28.6213 mL	
		5 mM	0.5724 mL	2.8621 mL	5.7243 mL	
		10 mM	0.2862 mL	1.4311 mL	2.8621 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
ı Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.16 mM); Clear solution					
Solubility: ≥ 2 3. Add each sol	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.16 mM); Clear solution					
		Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.16 mM); Clear solution				

BIOLOGICAL ACTIVITY		
Description	BMS-986299 (compound 112) is a first-in-class NLRP3 inflammasome agonist with an EC ₅₀ of 1.28 μM. (patent WO2018152396A1).	
IC₅₀ & Target	NLRP3 1.28 μΜ (EC50)	
In Vitro	BMS 986299 (1-1000 $\mu M)$ shows low toxicity of cells $PNRCMs^{[2]}$	

HN-

N[^]

《 ∬ HN−N NH₂



BMS 986299 (1 μM, 1 h) upre PNRCMs and therefore aggra	gulates the NLRP3 expression, stimulates the NLRP3 mediated cardiomyocyte pyroptosis in avates the DCM ^[2] .			
MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
Western Blot Analysis ^[2]				
Cell Line:	PNRCMs			
Concentration:	1 μM			
Incubation Time:	1 h			
Result:	Promoted NLRP3 expression.			
Immunofluorescence ^[2]				
Cell Line:	PNRCMs			
Concentration:	1μΜ			
Incubation Time:	1 h			
Result:	Revealed a higher number of PI stained positive cells.			

CUSTOMER VALIDATION

- Front Pharmacol. 2022 Jul 5;13:906548.
- Neuropharmacology. 2023 Aug 12;239:109687.

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REFERENCES

[1]. Gao G, et al., Cyclovirobuxine D Ameliorates Experimental Diabetic Cardiomyopathy by Inhibiting Cardiomyocyte Pyroptosis via NLRP3 in vivo and in vitro. Front Pharmacol. 2022 Jul 5;13:906548.

[2]. Gary Glick, et al. Substituted imidazo-quinolines as nlrp3 modulators. WO2018152396A1.

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

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