TMC647055

®

Cat. No.:	HY-15591	
CAS No.:	1204416-97-6	
Molecular Formula:	C ₃₂ H ₃₈ N ₄ O ₆ S	
Molecular Weight:	606.73	
Target:	HCV	
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	TMC647055 is a potent nonnucleoside NS5B polymerase inhibitor of HCV replication. TMC647055 has potent HCV combine activity with an IC ₅₀ value of 82 nM. TMC647055 can be used for the research of Hepatitis C virus (HCV) ^{[1][2]} .								
IC ₅₀ & Target	EC90: 0.3 μM (Huh7-Luc cell) ^[1] . EC50: 82 nM (HCV) ^[2]								
In Vitro	TMC647055 has antiviral activity with an EC ₉₀ value of 0.3 μ M in Huh7-Luc cells ^[1] . TMC647055 has potent combine activity with an EC ₅₀ value of 82 nM in cellular HCV assays ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	TMC647055 (compound 18a) (2 mg/kg, iv.; 10mg/kg, po.) shows an acceptable PK profile, characterized by high oral bioavailability and high systemic exposure after single oral dosing of 10 mg/kg, combined with a moderate plasma clearanceand low volume of distribution ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Rats ^[2]								
	Dosage:	2 mg/kg; 10mg/kg							
	Administration:	2 mg/kg, iv.; 10mg/kg, po.; singel							
	Result:	No. TMC647055 (compound	Cl (L/h/kg) 3.2	C _{max} (ng/mL) 440	[Liver] (ng/mL) 7800	L/P 46	F (%) ⊠66		
		188)							





• Antiviral Res. 2019 Oct;170:104570.

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REFERENCES

[1]. Sandrine Vendeville, et al. Finger loop inhibitors of the HCV NS5b polymerase. Part II. Optimization of tetracyclic indole-based macrocycle leading to the discovery of TMC647055. Bioorg Med Chem Lett. 2012 Jul 1;22(13):4437-43.

[2]. Devogelaere B, et al. TMC647055, a potent nonnucleoside hepatitis C virus NS5B polymerase inhibitor with cross-genotypic coverage. Antimicrob Agents Chemother. 2012 Sep;56(9):4676-4684.

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

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