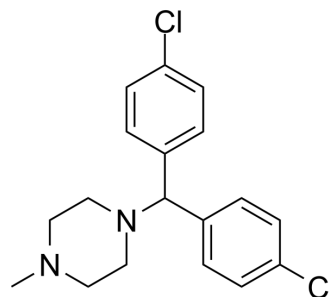


Antiviral agent 52

Cat. No.:	HY-113860
CAS No.:	101784-44-5
Molecular Formula:	C ₁₈ H ₂₀ Cl ₂ N ₂
Molecular Weight:	335.27
Target:	HCV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antiviral agent 52 (Compound 30) is a Chlorcyclizine (HY-112067) derivative that exhibits antiviral activity against hepatitis C virus (HCV) with an EC ₅₀ of 17 nM. Antiviral agent 52 reveals cytotoxicity in cell Huh7.5.1 with CC ₅₀ of 21.3 μM ^[1] .			
In Vivo	Antiviral agent 52 (10 mg/kg, i.p.) is preferentially in liver distributed without significant hepatotoxicity ^[1] .			
	Pharmacokinetic Analysis of Antiviral agent 52 in CD-1 mouse ^[1]			
	-	plasma	liver	liver/plasma
AUC _{last} (μM·h)		27.5	429	16
AUC _{INF} (μM·h)		29.8	495	17
T _{1/2} (h)		6.7	8.5	-
T _{max} (h)		0.083	0.083	-
C _{max} (h)		5.28	57.0	11
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. He S, et al., Discovery, Optimization, and Characterization of Novel Chlorcyclizine Derivatives for the Treatment of Hepatitis C Virus Infection. J Med Chem. 2016 Feb 11;59(3):841-53.

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

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