## Antiviral agent 54

Cat. No.:HY-161454Molecular Formula:C23H37N7Molecular Weight:411.59Target:Virus Protease; Influenza Virus; SARS-CoVPathway:Anti-infectionStorage:Please store the product under the recommended conditions in the Cert Analysis.	$\sim_N \sim \sim_N \sim_N \sim_N \sim_N \sim_N \sim_N \sim_N \sim_N \sim_$
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BIOLOGICAL ACTIVITY			
Description	Antiviral agent 54 (compound 33) is a broad-spectrum and orally active antiviral agent. Antiviral agent 54 shows antiviral activity for ZIKV, HCoV-OC43 and influenza A virus (IVA). Antiviral agent 54 decreases the ZIKV RNA and protein level <sup>[1]</sup> .		
IC <sub>50</sub> & Target	EC <sub>50</sub> : 0.39 μM (ZIKV); 2.28 μM (HCoV-OC43); 2.69 μM (influenza A) <sup>[1]</sup>		
In Vitro	Antiviral agent 54 (compound 33) (5, 2.5, 1.25, 0.625 μM; 48 h) decreases the ZIKV NS5 protein and RNA level in a dose- dependent manner <sup>[1]</sup> . Antiviral agent 54 shows antiviral activity for ZIKV, HCoV-OC43 and influenza A virus (IVA) with EC <sub>50</sub> s of 0.39, 2.28, 2.69 μM, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>		
	Cell Line:	HUVEC cells	
	Concentration:	5, 2.5, 1.25, 0.625 μM	
	Incubation Time:	48 h	
	Result:	Decreased the ZIKV NS5 protein level in a dose-dependent manner.	
	RT-PCR <sup>[1]</sup>		
	Cell Line:	HUVEC cells	
	Concentration:	10 μΜ	
	Incubation Time:	48 h	
	Result:	Decreased the ZIKV RNA level in a dose-dependent manner.	

## REFERENCES

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[1]. Ji Y, et al. Design, synthesis, and antiviral activity of 1-aryl-4-arylmethylpiperazine derivatives as Zika virus inhibitors with broad antiviral spectrum. Bioorg Med Chem.



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

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