Laninamivir octanoate hydrate

MedChemExpress

Cat. No.:	HY-14818C	
CAS No.:	1233643-88-3	
Molecular Formula:	$C_{21}H_{38}N_4O_9$	HOO H ₂ O
Molecular Weight:	490.55	
Target:	Influenza Virus	
Pathway:	Anti-infection	Ö
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY		
	Laninamivir octanoate hydrate (CS-8958 hydrate), a prodrug of Laninamivir, is a long-acting neuraminidase (NA) inhibitor with anti-influenza virus activity. Laninamivir octanoate hydrate shows anti-influenza activity against Oseltamivir-resistant	
In Vitro Laninamivir octanoate (CS-8958) shows inhibitory activity with an IC ₅₀ of 631-1170 nM, 39.2-221 nM and 128 nM viruses strains, H3N2 viruses strains and H2N2 (A/Singapore/1/57) virus, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo Laninamivir octanoate (CS-8958; 95 μg/kg; intranasal administration; three dose; at 4 h before and 4 h and 17 h postinfection) treatment shows significantly life-prolonging effect in infected model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
Animal Model: Female BALB/c mice (5-6 weeks old) infected with influenza A virus A/PR/8/34 ^{[1}]	
Dosage: 0.2 μmol/kg (95 μg/kg)		
Administration: Intranasal administration; three dose; at 4 h before and 4 h and 17 h postinfect	on	
Result: Showed life-prolonging effect in infected model.		

REFERENCES

[1]. Makoto Yamashita, et al. CS-8958, a prodrug of the new neuraminidase inhibitor R-125489, shows long-acting anti-influenza virus activity. Antimicrob Agents Chemother. 2009 Jan;53(1):186-92.

[2]. Hideyuki Ikematsu, et al. Laninamivir octanoate: a new long-acting neuraminidase inhibitor for the treatment of influenza. Expert Rev Anti Infect Ther. 2011 Oct;9(10):851-7.

Product Data Sheet

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

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