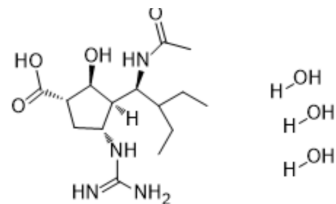


Peramivir trihydrate

Cat. No.:	HY-17015		
CAS No.:	1041434-82-5		
Molecular Formula:	C ₁₅ H ₃₄ N ₄ O ₇		
Molecular Weight:	382.45		
Target:	Influenza Virus		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 5 mg/mL (13.07 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6147 mL	13.0736 mL	26.1472 mL
	5 mM	0.5229 mL	2.6147 mL	5.2294 mL
	10 mM	0.2615 mL	1.3074 mL	2.6147 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
 Solubility: 4.55 mg/mL (11.90 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description

Peramivir trihydrate (RWJ-270201 trihydrate; BCX-1812 trihydrate) is a highly potent, selective and orally active influenza virus neuraminidase (NA) inhibitor, with IC₅₀ values ranging from 0.9 to 4.3 nM for nine NA subtypes^{[1][2]}.

IC₅₀ & Target

IC₅₀ 0.9-4.3 nM (NA)^[2]

CUSTOMER VALIDATION

- Nat Commun. 2013;4:2854.

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- Chemosphere. 2017 Feb;169:550-557.
 - Int Immunopharmacol. 2023 Jan 11;115:109706.
 - Antimicrob Agents Chemother. 2020 Jun 23;64(7):e00222-20.
 - Sci Rep. 2021 Aug 11;11(1):16293.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Young D, et al. RWJ-270201 (BCX-1812): a novel neuraminidase inhibitor for influenza. Philos Trans R Soc Lond B Biol Sci. 2001 Dec 29;356(1416):1905-13.

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

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