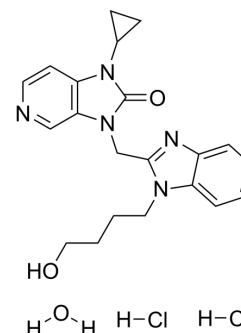


BMS-433771 dihydrochloride hydrate

Cat. No.:	HY-120632A
CAS No.:	543700-67-0
Molecular Formula:	C ₂₁ H ₂₇ Cl ₂ N ₅ O ₃
Molecular Weight:	468.38
Target:	RSV
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (106.75 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.1350 mL	10.6751 mL	21.3502 mL
		5 mM	0.4270 mL	2.1350 mL	4.2700 mL
10 mM	0.2135 mL	1.0675 mL	2.1350 mL		
Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY

Description	BMS-433771 dihydrochloride hydrate is a potent orally active inhibitor of respiratory syncytial virus (RSV). BMS-433771 dihydrochloride hydrate is active against both A and B groups of RSV, with an average EC ₅₀ of 20 nM. BMS-433771 dihydrochloride hydrate can be used for the research of respiratory tract disease ^{[1][2]} .
IC₅₀ & Target	EC ₅₀ : 20 nM (RSV) ^[1]
In Vitro	BMS-433771 dihydrochloride hydrate has inhibitory against both A and B groups of RSV, with an average EC ₅₀ of 20 nM ^[1] . BMS-433771 dihydrochloride hydrate can inhibit viral F protein-induced membrane fusion ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BMS-433771 dihydrochloride hydrate (p.o.; 1-200 mg/kg; single or bid 4 days) shows prophylactic efficacy via oral dosing but has considerable pharmacodynamic differences between the two rodent models ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Christopher Cianci, et al. Antiviral activity and molecular mechanism of an orally active respiratory syncytial virus fusion inhibitor. J Antimicrob Chemother
- [2]. Christopher Cianci, et al. Oral efficacy of a respiratory syncytial virus inhibitor in rodent models of infection. Antimicrob Agents Chemother. 2004 Jul;48(7):2448-54.
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Caution: Product has not been fully validated for medical applications. For research use only.

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