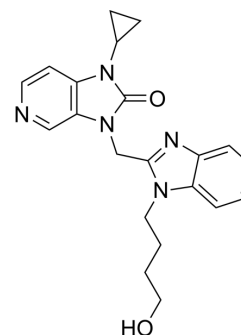


## BMS-433771

Cat. No.:	HY-120632		
CAS No.:	543700-68-1		
Molecular Formula:	C <sub>21</sub> H <sub>23</sub> N <sub>5</sub> O <sub>2</sub>		
Molecular Weight:	377.44		
Target:	RSV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 6.25 mg/mL (16.56 mM; ultrasonic and warming and heat to 60°C)  
 H<sub>2</sub>O : 2.5 mg/mL (6.62 mM; ultrasonic and adjust pH to 4 with HCl)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.6494 mL	13.2471 mL	26.4943 mL
5 mM	0.5299 mL	2.6494 mL	5.2989 mL
10 mM	0.2649 mL	1.3247 mL	2.6494 mL

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

### BIOLOGICAL ACTIVITY

#### Description

BMS-433771 is a potent orally active inhibitor of respiratory syncytial virus (RSV). BMS-433771 is active against both A and B groups of RSV, with an average EC<sub>50</sub> of 20 nM. BMS-433771 can be used for the research of respiratory tract disease<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

EC<sub>50</sub>: 20 nM (RSV)<sup>[1]</sup>

#### In Vitro

BMS-433771 has inhibitory against both A and B groups of RSV, with an average EC<sub>50</sub> of 20 nM<sup>[1]</sup>.  
 BMS-433771 can inhibit viral F protein-induced membrane fusion<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

BMS-433771 (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<sup>[2]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	rodent models of RSV infection <sup>[2]</sup> (cotton rat and mice)
Dosage:	1, 10, and 50 mg/kg (mice); 25, 50, 100, and 200 mg/kg (rat)
Administration:	oral, single or bid 4 days
Result:	Had prophylactic efficacy via oral dosing in both animal models. Showed RSV infection more sensitive to inhibition in the BALB/c mouse host than in the cotton rat.

## 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.

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

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