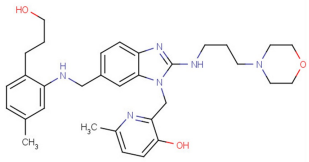
Data Sheet (Cat.No.T17107)

TargetMol
A DRUG SCREENING EXPERT

TMC353121

Chemical Properties



CAS No.:	857066-90-1
Formula:	C32H42N6O3
Molecular Weight:	558.71
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	TMC353121 is an effective inhibitor of respiratory syncytial virus fusion (pEC50: 9.9).
Targets(IC_{50})	RSV: (pEC50) 9.9
In vitro	TMC353121 is a potent RSV fusion inhibitor in vitro. TMC353121 is active against wild-type RSV (strain LO), with a 50% effective concentration (EC50: 0.07 ng/mL in HeLaM cells). TMC353121 displays activity against groups A and B RSV and against a panel of clinical isolates with equal potency [1][2].
In vivo	TMC353121 is rapidly eliminated from plasma (CL=8.6 liters/h/kg) and extensively distributed (Vss=55 liters/kg). TMC353121 is administered once, i.v. at 2.5 mg/kg or at 0.25 mg/kg. Mean plasma drug concentrations decrease rapidly during the first hours after dosing and then more slowly, with a half-life of about 12 h, as determined for the last part of the curve between 8 and 24 h postdose. TMC353121 followed multicompartment pharmacokinetics, with a fast decay in serum within the first hour after i.v. injection, followed by a slower decay [2][3].

Solubility Information

Solubility	DMSO: 50 mg/mL (89.49 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.79 mL	8.949 mL	17.898 mL
5 mM	0.358 mL	1.79 mL	3.58 mL
10 mM	0.179 mL	0.895 mL	1.79 mL
50 mM	0.036 mL	0.179 mL	0.358 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

2. Rouan MC, et al. Pharmacokinetics-pharmacodynamics of a respiratory syncytial virus fusion inhibitor in the cotton rat model. Antimicrob Agents Chemother. 2010 Nov;54(11):4534-9.

3. Olszewska W, et al. Antiviral and lung protective activity of a novel respiratory syncytial virus fusion inhibitor in a mouse model. Eur Respir J. 2011 Aug;38(2):401-8.

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