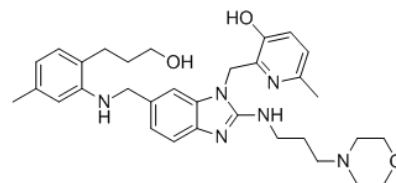


**Product Name** : TMC353121  
**Cat. No.** : PC-42807  
**CAS No.** : 857066-90-1  
**Molecular Formula** : C<sub>32</sub>H<sub>42</sub>N<sub>6</sub>O<sub>3</sub>  
**Molecular Weight** : 558.7143  
**Target** : RSV  
**Solubility** : 10 mM in DMSO



## Biological Activity

TMC353121 is a potent respiratory syncytial virus (RSV) fusion inhibitor with pEC<sub>50</sub> of 9.9, shows activity against groups A and B RSV and against a panel of clinical isolates with equal potency (EC<sub>50</sub><0.1 ng/mL); binds at a hydrophobic pocket of the 6HB formed by amino acid residues from both HR1 and HR2 heptad-repeats, stabilizes the interaction of HR1 and HR2 in an alternate conformation of the 6HB; demonstrates in vivo activity in the cotton rat models, significantly reduces viral load, bronchoalveolar lavage cell accumulation and the severity of lung histopathological change at dose of 0.25-10 mg/Kg.

## References

- Bonfanti JF, et al. J Med Chem. 2008 Feb 28;51(4):875-96.  
Roymans D, et al. Proc Natl Acad Sci U S A. 2010 Jan 5;107(1):308-13.  
Rouan MC, et al. Antimicrob Agents Chemother. 2010 Nov;54(11):4534-9.  
Ispas G, et al. PLoS One. 2015 May 26;10(5):e0126959.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com