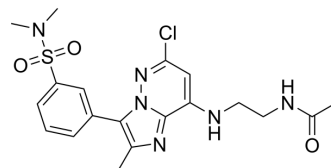


## MI 14

Cat. No.:	HY-110248
CAS No.:	1715934-43-2
Molecular Formula:	C <sub>19</sub> H <sub>23</sub> ClN <sub>6</sub> O <sub>3</sub> S
Molecular Weight:	450.94
Target:	PI4K; HCV
Pathway:	PI3K/Akt/mTOR; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	MI 14 is a selective PI4KIIIβ inhibitor with IC <sub>50</sub> s of 54 nM, >100 μM, >100 μM for PI4KIIIβ, PI4KIIIα, PI4KIIα, respectively. MI 14 has antiviral activity against HCV 1b, CVB3, HRVM, HVC 2a <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	PI4KIIIβ 54 nM (IC <sub>50</sub> )	PI4KIIIα >100 μM (IC <sub>50</sub> )	PI4KIIα >100 μM (IC <sub>50</sub> )
<b>In Vitro</b>	MI 14 (compound 36t) has antiviral activity against HCV 1b (EC <sub>50</sub> =0.087 μM), CVB3 (EC <sub>50</sub> =0.145 μM), HRVM (EC <sub>50</sub> =1.03 μM), HVC 2a (EC <sub>50</sub> =10.6 μM) in HeLa cells <sup>[1]</sup> . MI 14 has no inhibition on phosphatidylinositol 3-kinases (PI3Ka, PI3Kb, PI3Kd and PI3Kg) with IC <sub>50</sub> s up to 10 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

## REFERENCES

[1]. Ivana Mejdrová, et al. Highly Selective Phosphatidylinositol 4-Kinase IIIβ Inhibitors and Structural Insight into Their Mode of Action. J Med Chem. 2015 May 14;58(9):3767-93.

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

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