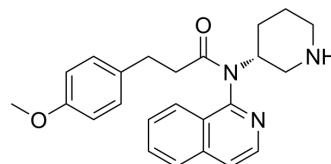


## R-IMPP

<b>Cat. No.:</b>	HY-101354		
<b>CAS No.:</b>	2133832-83-2		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>27</sub> N <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	389.49		
<b>Target:</b>	Ser/Thr Protease		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (256.75 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.5675 mL	12.8373 mL	25.6746 mL
	<b>5 mM</b>	0.5135 mL	2.5675 mL	5.1349 mL
	<b>10 mM</b>	0.2567 mL	1.2837 mL	2.5675 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.42 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution</li> </ol>			

## BIOLOGICAL ACTIVITY

<b>Description</b>	R-IMPP (PF-00932239) is an anti-secretagogue of PCSK9 (IC <sub>50</sub> =4.8 μM), which targets the 80S ribosome to inhibit PCSK9 protein translation <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 4.8 μM (PCSK9) <sup>[1]</sup>
<b>In Vitro</b>	R-IMPP stimulates uptake of LDL-C in hepatoma cells by increasing LDL-R levels, without altering levels of secreted transferrin. R-IMPP does not decrease PCSK9 transcription or increase PCSK9 degradation, but causes transcript-dependent

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inhibition of PCSK9 translation. R-IMPP is able to selectively bind to human, but not E. coli, ribosomes<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Petersen DN, et al. A Small-Molecule Anti-secretagogue of PCSK9 Targets the 80S Ribosome to Inhibit PCSK9 Protein Translation. Cell Chem Biol. 2016 Nov 17;23(11):1362-1371

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

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