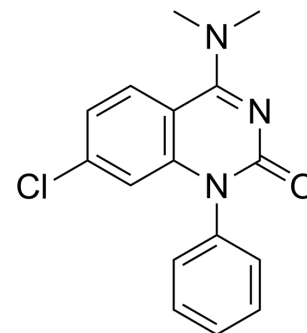


## MAT2A inhibitor 3

<b>Cat. No.:</b>	HY-139139		
<b>CAS No.:</b>	2439271-82-4		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>14</sub> ClN <sub>3</sub> O		
<b>Molecular Weight:</b>	299.75		
<b>Target:</b>	Methionine Adenosyltransferase (MAT)		
<b>Pathway:</b>	Epigenetics; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (166.81 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	<b>Preparing Stock Solutions</b>		10 mg	
	<b>1 mM</b>	3.3361 mL	16.6806 mL	33.3611 mL
	<b>5 mM</b>	0.6672 mL	3.3361 mL	6.6722 mL
	<b>10 mM</b>	0.3336 mL	1.6681 mL	3.3361 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 (8.34 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 (8.34 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.34 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	MAT2A inhibitor 3 is a methionine adenosyltransferase 2A (MAT2A) inhibitor extracted from patent WO2020123395A1, compound 24, has an IC <sub>50</sub> of <200 nM. MAT2A inhibitor 3 can be used for the research of cancers <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC50: <200 nM (MAT2A) <sup>[1]</sup>
<b>In Vitro</b>	MAT2A inhibitor 3 is a potent methionine adenosyltransferase 2A inhibitor, with an IC <sub>50</sub> of <200 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Alam M, et, al. 2-oxoquinazoline derivatives as methionine adenosyltransferase 2a inhibitors. WO2020123395A1.

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

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