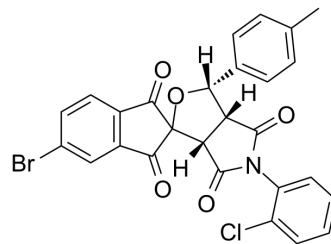


## Adenylyl cyclase type 2 agonist-1

<b>Cat. No.:</b>	HY-146356
<b>CAS No.:</b>	2414908-52-2
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>17</sub> BrClNO <sub>5</sub>
<b>Molecular Weight:</b>	550.78
<b>Target:</b>	Adenylate Cyclase
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (45.39 mM; Need ultrasonic)				
	<b>Preparing Stock Solutions</b>	<b>Solvent</b> \ <b>Mass</b> \ <b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>	1.8156 mL	9.0780 mL	18.1561 mL
		<b>5 mM</b>	0.3631 mL	1.8156 mL	3.6312 mL
		<b>10 mM</b>	0.1816 mL	0.9078 mL	1.8156 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.27 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Adenylyl cyclase type 2 agonist-1 (Compound 73) is a potent agonist of adenylyl cyclase type 2 (AC2) with the EC <sub>50</sub> of 90 nM. Adenylyl cyclase type 2 agonist-1 inhibits expression of Interleukin-6, making it a potential lead compound against respiratory diseases <sup>[1]</sup> .
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### REFERENCES

[1]. Guowei Xu, et al. The discovery, design and synthesis of potent agonists of adenylyl cyclase type 2 by virtual screening combining biological evaluation. Eur J Med Chem. 2020 Apr 1;191:112115.

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

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