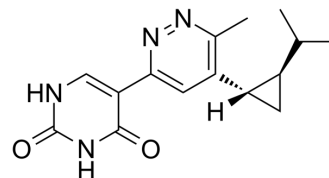


## CD73-IN-3

Cat. No.:	HY-137246		
CAS No.:	2375815-63-5		
Molecular Formula:	C <sub>15</sub> H <sub>18</sub> N <sub>4</sub> O <sub>2</sub>		
Molecular Weight:	286.33		
Target:	CD73		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (349.25 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.4925 mL	17.4624 mL	34.9247 mL
	5 mM		0.6985 mL	3.4925 mL	6.9849 mL
	10 mM		0.3492 mL	1.7462 mL	3.4925 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (8.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (8.73 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

CD73-IN-3 is a potent CD73 inhibitor (IC<sub>50</sub>=7.3 nM in Calu6 human cell assay). CD73-IN-3, example 2 extracted from patent WO2019168744 A1, has the potential for cancer research<sup>[1]</sup>.

#### In Vitro

CD73-IN-3 inhibits CD73 activity in human serum with an EC<sub>50</sub> of 0.213 μM. CD73-IN-3 inhibits CD73 activity in human serum by 56.8%, 71.7% and 76.9% at 0.52 μM, 1.56 μM, 4.68 μM, respectively<sup>[1]</sup>.  
In Calu6 human cell assay against CD73, the IC<sub>50</sub> for CD73-IN-3 against CD73 is 0.0073 μM<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Robert Dean Dally, et al. Cd73 inhibitors. Patent WO2019168744 A1.

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

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