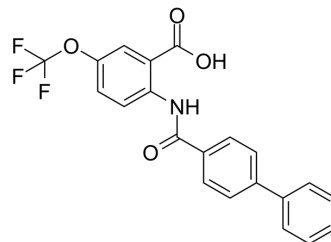


## IMP2-IN-1

Cat. No.:	HY-146178		
CAS No.:	1480482-51-6		
Molecular Formula:	C <sub>21</sub> H <sub>14</sub> F <sub>3</sub> NO <sub>4</sub>		
Molecular Weight:	401.34		
Target:	Others		
Pathway:	Others		
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 (249.17 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4917 mL	12.4583 mL	24.9165 mL
		5 mM	0.4983 mL	2.4917 mL	4.9833 mL
10 mM		0.2492 mL	1.2458 mL	2.4917 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.23 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.23 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	IMP2-IN-1 (compound 4) is a potent IMP2 inhibitor with IC <sub>50</sub> value of 81.3~127.5 for IMP2 RNA sequence. IMP2-IN-1 reduces IMP2 in SW480 cells. IMP2-IN-1 significantly reduces the viability of both differentiated and non-differentiated Huh7 cells <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 81.3~127.5 μM (IMP2) <sup>[1]</sup>

### REFERENCES

[1]. Dahlem C, et al. First Small-Molecule Inhibitors Targeting the RNA-Binding Protein IGF2BP2/IMP2 for Cancer Therapy. ACS Chem Biol. 2022;17(2):361-375.

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

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