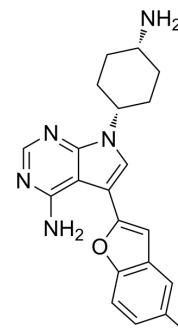


## PIKfyve-IN-3

<b>Cat. No.:</b>	HY-163133		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>23</sub> N <sub>5</sub> O		
<b>Molecular Weight:</b>	361.44		
<b>Target:</b>	PIKfyve		
<b>Pathway:</b>	PI3K/Akt/mTOR		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10 mg/mL (27.67 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.7667 mL	13.8336 mL	27.6671 mL
	5 mM	0.5533 mL	2.7667 mL	5.5334 mL
	10 mM	0.2767 mL	1.3834 mL	2.7667 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 1 mg/mL (2.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 1 mg/mL (2.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 1 mg/mL (2.77 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

PIKfyve-IN-3 (compound L22) has a remarkable interaction with PIKfyve kinase with a  $K_D$  value of 0.47 nM. PIKfyve-IN-3 has oral activity. PIKfyve-IN-3 inhibits tumor growth in a HeLa xenograft model<sup>[1]</sup>.

### REFERENCES

- [1]. Yong Chen, et al. Discovery of Potent and Selective Phosphatidylinositol 3-Phosphate 5-Kinase (PIKfyve) Inhibitors as Methuosis Inducers. *J Med Chem.* 2024, 67, 1.

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

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