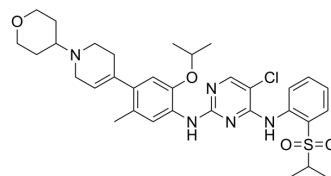


## APG-2449

<b>Cat. No.:</b>	HY-155163		
<b>CAS No.:</b>	2196186-84-0		
<b>Molecular Formula:</b>	C <sub>33</sub> H <sub>42</sub> ClN <sub>5</sub> O <sub>4</sub> S		
<b>Molecular Weight:</b>	640.24		
<b>Target:</b>	Anaplastic lymphoma kinase (ALK); ROS Kinase; FAK		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK		
<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 : 50 mg/mL (78.10 mM); ultrasonic and warming and heat to 60°C

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.5619 mL	7.8096 mL	15.6191 mL
5 mM	0.3124 mL	1.5619 mL	3.1238 mL
10 mM	0.1562 mL	0.7810 mL	1.5619 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: ≥ 2.5 mg/mL (3.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (3.90 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

APG-2449 is an orally active ALK/ROS1/FAK inhibitor. APG-2449 shows antitumor activity in mouse models of non-small cell lung cancer (NSCLC)<sup>[1]</sup>.

### REFERENCES

- [1]. Fang DD, et al. Discovery of a novel ALK/ROS1/FAK inhibitor, APG-2449, in preclinical non-small cell lung cancer and ovarian cancer models. BMC Cancer. 2022 Jul 11;22(1):752.

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

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