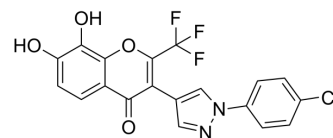


## KH-4-43

<b>Cat. No.:</b>	HY-148602		
<b>CAS No.:</b>	2813310-07-3		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>10</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	422.74		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (236.55 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	1 mM	2.3655 mL	11.8276 mL	23.6552 mL
	5 mM	0.4731 mL	2.3655 mL	4.7310 mL
	10 mM	0.2366 mL	1.1828 mL	2.3655 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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.91 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	KH-4-43 is an inhibitor of E3 CRL4. KH-4-43 inhibits E3 CRL4's core ligase complex and exhibits anticancer activity. KH-4-43 has a binding $K_d$ to E3 ROC1-CUL4A CTD or the highly related ROC1-CUL1 CTD at 83 nM or 9.4 $\mu$ M, respectively <sup>[1]</sup> .
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### REFERENCES

[1]. Wu K, et al. Targeting Cullin-RING E3 Ubiquitin Ligase 4 by Small Molecule Modulators. J Cell Signal. 2021;2(3):195-205.

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

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