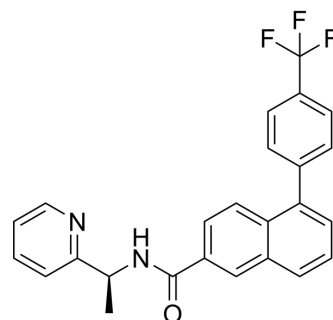


## VT104

<b>Cat. No.:</b>	HY-134956		
<b>CAS No.:</b>	2417718-25-1		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>19</sub> F <sub>3</sub> N <sub>2</sub> O		
<b>Molecular Weight:</b>	420.43		
<b>Target:</b>	YAP		
<b>Pathway:</b>	Stem Cell/Wnt		
<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 : 100 mg/mL (237.85 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3785 mL	11.8926 mL	23.7852 mL
5 mM	0.4757 mL	2.3785 mL	4.7570 mL
10 mM	0.2379 mL	1.1893 mL	2.3785 mL

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

### BIOLOGICAL ACTIVITY

#### Description

VT104 is a potent and orally active YAP/TAZ inhibitor. VT104 prevents palmitoylation of endogenous TEAD1 and TEAD3 proteins. VT104 can be used in research of cancer<sup>[1][2]</sup>.

#### In Vitro

VT104 (0-1000 nM) inhibits proliferation of NF2 mutant/defective cell line<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

VT104 (0.3-3 mg/kg; p.o.; NCI-H226-tumor bearing mice) blocks growth of NF2-deficient mesothelioma xenografts<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: NCI-H226-tumor bearing mice<sup>[1]</sup>

Dosage: 0.3, 1, and 3 mg/kg

Administration: Oral administration

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Result:	Blocked NCI-H226 tumor growth in mice in dose-dependent manner.
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## REFERENCES

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- [1]. Tang TT, et, al. Small Molecule Inhibitors of TEAD Auto-palmitoylation Selectively Inhibit Proliferation and Tumor Growth of NF2-deficient Mesothelioma. Mol Cancer Ther. 2021 Jun;20(6):986-998.
- [2]. Barry ER, et, al. Recent Therapeutic Approaches to Modulate the Hippo Pathway in Oncology and Regenerative Medicine. Cells. 2021 Oct 11;10(10):2715.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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