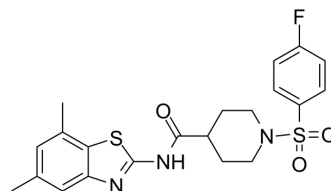


VU534

Cat. No.:	HY-155773		
CAS No.:	923509-20-0		
Molecular Formula:	C ₂₁ H ₂₂ FN ₃ O ₃ S ₂		
Molecular Weight:	447.55		
Target:	FAAH; Epoxide Hydrolase		
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling		
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 : 25 mg/mL (55.86 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2344 mL	11.1719 mL	22.3439 mL
5 mM	0.4469 mL	2.2344 mL	4.4688 mL
10 mM	0.2234 mL	1.1172 mL	2.2344 mL

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

BIOLOGICAL ACTIVITY

Description

VU534 is a NAPE-PLD activator, with an EC₅₀ of 0.30 μM. VU534 is dual inhibitors of FAAH and sEH (IC₅₀ of 1.2 μM). VU534 increases efferocytosis in a NAPE-PLD dependent manner. VU534 has the potential for cardiometabolic diseases study ^[1].

IC₅₀ & Target

NAPE-PLD activator, with an EC₅₀ of 0.30 μM

In Vitro

VU534 (up to 30 μM, 24 h) shows minimal cytotoxicity in HepG2 and Raw264.7 cell lines ^[1].
 VU534 (3-30 μM, 1 h) increases NAPE-PLD activity in Raw264.7 cells ^[1].
 VU534 (1 h) increases NAPE-PLD activity in HepG2 cells, with the EC₅₀ values of 1.5 μM^[1].
 VU534 (5 μM, 1 h) increases NAPE-PLD activity 1.5-fold, but not reverses LEI-401(HY-131181)-inhibited NAPE-PLD activity ^[1].
 VU534 (10 μM, 6 h) significantly enhances efferocytosis in bone-marrow-derived macrophages, but not work in Napepld^{-/-} KO^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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