**Proteins** 

## **UNC7467**

Cat. No.: HY-150607 CAS No.: 2922283-43-8 Molecular Formula:  $C_{20}H_{13}NO_{3}$ Molecular Weight: 315.32 Target: Others Pathway: Others

Storage: Powder

3 years 4°C 2 years

-80°C In solvent 6 months

-20°C

-20°C 1 month

## **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 14.29 mg/mL (45.32 mM; ultrasonic and warming and heat to 60°C)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1714 mL	15.8569 mL	31.7138 mL
	5 mM	0.6343 mL	3.1714 mL	6.3428 mL
	10 mM	0.3171 mL	1.5857 mL	3.1714 mL

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

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Description	UNC7467 is a potent IP6K inhibitor with values of 4.9, 8.9 and 1320 nM for IP6K2, IP6K1 and IP6K6, respectively. UNC7467 reduces levels of inositol pyrophosphates. UNC7467 can be used for obesity research <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 4.9 nM (IP6K2), 8.9 nM (IP6K1), 1320 nM (IP6K3) <sup>[1]</sup> .
In Vitro	UNC7467 (2.5 $\mu$ M; 3 hours; HCT116 cells) reduces levels of inositol pyrophosphates. UNC7467 reduces 5-InsP <sub>7</sub> levels by 81% and 5-InsP <sub>8</sub> levels by 63% <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	UNC7467 (5 mg/kg; i.p.; daily, for 4 weeks; diet-induced obesity mice) ameliorated diet induced obesity, insulin resistance, and hepatic steatosis <sup>[1]</sup> .  UNC7467 (1-5 mg/kg; i.v. and i.p.; diet-induced obesity mice) exhibits low clearance (13.7 (mL/min)/kg) and large AUC <sub>last</sub> (6054 h•ng/mL for intra venous (i.v.) and 2527 h•ng/mL for intraperitoneal (i.p.)) in mice at 5 mg/kg dose <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Diet-induced obesity (DIO) mice $^{[1]}$				
Dosage:	5 mg/kg				
Administration:	Intraperitoneal injection; daily, for 4 weeks				
Result:	Improved glycemic profiles, ameliorated hepatic steatosis, and reduced weight gain without altering food intake.				
Animal Model:	Diet-induced obesity (DIO) mice $^{[1]}$				
Dosage:	5 mg/kg (Pharmacokinetic Analysis)				
Administration:	Intravenous injection and intraperitoneal injection				
Result:					
	route	iv	ip		
	Dose (mg/kg)	5	5		
	AUC <sub>last</sub> (h*ng/mL)	6054	2527		
	CL (mL/min/kg)	13.7			

## **REFERENCES**

[1]. Zhou Y, et, al. Development of Novel IP6K Inhibitors for the Treatment of Obesity and Obesity-Induced Metabolic Dysfunctions. J Med Chem. 2022 May 12;65(9):6869-6887.

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

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