WNK-IN-11-d₃

MedChemExpress

Cat. No.:	HY-1120949	5	
CAS No.:	2123483-49	-6	
Molecular Formula:	C ₂₁ H ₁₈ D ₃ Cl ₂ I	N₅OS	
Molecular Weight:	465.41		
Target:	Ser/Thr Pro	tease	
Pathway:	Metabolic E	nzyme/F	Protease
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 : ≥ 100 mg/mL (214.86 mM

* " \geq " means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1486 mL	10.7432 mL	21.4864 mL
	5 mM	0.4297 mL	2.1486 mL	4.2973 mL
	10 mM	0.2149 mL	1.0743 mL	2.1486 mL
Please refer to the sol	ubility information to select the a	appropriate solvent.		

BIOLOGICALMONN	
Description	WNK-IN-11-d ₃ is an orally active, selective and potent With-No-Lysine (WNK) kinase inhibitor. WNK-IN-11-d ₃ is effective at regulating cardiovascular homeostasis[1].
IC ₅₀ & Target	WNK ^[1]
In Vivo	WNK-IN-11 D3 (1.5 mg/kg; p.o.) shows an improved rat PK profile, including lower clearance, improvement in absolute oral exposure, and a 2-fold improvement in oral bioavailability ^[1] . WNK-IN-11 D3 (30 mg/kg; p.o.) shows significant reductions in systolic blood pressure (SBP) vs untreated mice ^[1] . WNK-IN-11 D3 (0~100 mg/kg; p.o.) induces dose dependent diuresis, natriuresis, and kaliuresis, from 10 to 100 mg/kg ^[1] . WNK-IN-11 D3 shows trends toward reduction of blood pressure, stroke volume, and total peripheral resistance, while increasing heart rate. WNK-IN-11 D3 shows efficacy in rodent models of hypertension and volume overload ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

CI

Animal Model:	Sprague–Dawley rats ^[4]		
Dosage:	1.5 mg/kg		
Administration:	P.o.		
Result:	Showed an improved rat PK profile, including lower clearance, improvement in absolute oral exposure, and a 2-fold improvement in oral bioavailability.		
Animal Model:	FVB mice ^[1]		
Dosage:	30 mg/kg		
Administration:	Р.о.		
Result:	Showed significant reductions in systolic blood pressure (SBP) vs untreated mice.		
Animal Model:	FVB mice ^[1]		
Dosage:	0~100 mg/kg		
Administration:	Р.о.		
Result.	Induced dose dependent diuresis, natriuresis, and kaliuresis, from 10 to 100 mg/kg.		

REFERENCES

[1]. Yamada K, Levell J, Yoon T, et al. Optimization of Allosteric With-No-Lysine (WNK) Kinase Inhibitors and Efficacy in Rodent Hypertension Models. J Med Chem. 2017;60(16):7099-7107.

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

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