

# **Product** Data Sheet

## JNc-440

Cat. No.: HY-120514

CAS No.: 1119503-63-7

Molecular Formula:  $C_{26}H_{24}N_4O_3$ Molecular Weight: 440.49

Target: TRP Channel; Potassium Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: Powder -20°C 3 years

In solvent

4°C 2 years
-80°C 6 months
-20°C 1 month

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 50 mg/mL (113.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.2702 mL	11.3510 mL	22.7020 mL
	5 mM	0.4540 mL	2.2702 mL	4.5404 mL
	10 mM	0.2270 mL	1.1351 mL	2.2702 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.84 mM); Clear solution

### **BIOLOGICAL ACTIVITY**

Description	·	tihypertensive agent. JNc-440 can enhance the interaction of TRPV4 and Ca <sup>2+</sup> -activated potassium endothelial cells. JNc-440 can also enhance vasodilation, and exerted antihypertensive effects in mice	
In Vivo	JNc-440 (1 mg/kg; IV; single dosage) improves endothelium-dependent relaxation in small resistance arteries and to lower blood pressure <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.  Animal Model:  TRPV4 <sup>-/-</sup> and wild Δtype C57BL/6J mice (hypertensive induced by NOS inhibitor Nω-nitro-L-arginine, AnglI and high-salt diet) <sup>[1]</sup>		

Dosage:	1 mg/kg
Administration:	IV; single dosage
Result:	Increased the impaired TRPV4MKCa2.3 interaction to improve endotheliumMdependent relaxation in small resistance arteries and to lower blood pressure.

# **REFERENCES**

[1]. He D, et al. Treatment of hypertension by increasing impaired endothelial TRPV4-KCa2.3 interaction. EMBO Mol Med. 2017 Nov;9(11):1491-1503.

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

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