## Cav 3.2 inhibitor 3

Cat. No.:	HY-151452	
CAS No.:	2878598-69-5	o, /
Molecular Formula	: $C_{32}H_{37}N_{3}O_{2}$	
Molecular Weight:	495.66	$\searrow$
Target:	Calcium Channel	
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling	Ĵ,
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	(

BIOLOGICAL ACTIV			
Description	Cav 3.2 inhibitor 3 (Compound 4) is a potent Ca <sub>v</sub> 3.2 T-type Ca <sup>2+</sup> channel inhibitor with an IC <sub>50</sub> of 0.1534 μM, and has little binding affinity to D <sub>2</sub> receptors <sup>[1]</sup> .		
IC₅₀ & Target	Ca <sub>v</sub> 3.2 0.1534 μM (IC <sub>50</sub> )		
In Vivo	Cav 3.2 inhibitor 3 (Compound 4) (1-10 mg/kg; i.p.; once) potently suppresses T-channel-dependent somatic and visceral pain in mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	C57BL/6J mice, Ca <sub>v</sub> 3.2-dependent somatic and visceral pain model $^{\left[ 1\right] }$	
	Dosage:	1, 3 and 10 mg/kg	
	Administration:	Intraperitoneal administration, once	
	Result:	Reduced the mechanical allodynia in the hindpaw and colonic pain/referred hyperalgesia following i.pl. and i.col. administrations of Na <sub>2</sub> S, a donor of H <sub>2</sub> S, respectively. Suppressed the i.pl. Na <sub>2</sub> S-induced paw allodynia in a dose-dependent manner, and the maximally effective doses were roughly estimated at 10 mg/kg.	

## REFERENCES

[1]. Kasanami Y, et al. Discovery of pimozide derivatives as novel T-type calcium channel inhibitors with little binding affinity to dopamine D2 receptors for treatment of somatic and visceral pain. Eur J Med Chem. 2022 Aug 27;243:114716.

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

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**Product** Data Sheet

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