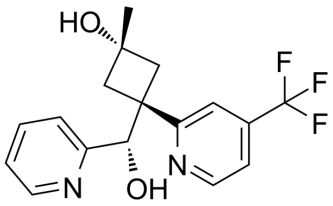
TRPV3 antagonist 74a

Cat. No.:	HY-131868
CAS No.:	1432051-63-2
Molecular Formula:	$C_{17}H_{17}F_3N_2O_2$
Molecular Weight:	338.32
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	TRPV3 antagonist 74a is a potent and selective TRPV3 antagonist. TRPV3 antagonist 74a displays no significant activity against a panel of other ion channels. TRPV3 antagonist 74a can be used for the research of neuropathic pain[1][2].
IC_{50} & Target	TRPV3
In Vitro	TRPV3 antagonist 74a (100 μM; 2300 seconds; keratinocytes) largely attenuates SLIGRL or SLIGKV-induced Ca^{2+} responses[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	TRPV3 antagonist 74a (150 μg; intradermal injection; 30 minutes) decreases the number of scratches significantly[2]. .TRPV3 antagonist 74a (10~100 mg/kg; p.o.) dose-dependently attenuates mechanical allodynia induced by von Frey hair stimulation to the ipsilateral (injured) hind paw. TRPV3 antagonist 74a exhibits anti-nociceptive activity in the reserpine model of central pain by increasing muscle pressure threshold[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	WT mice
Dosage:	150 μg
Administration:	Intradermal injection; 30 minutes
Result:	The number of scratches decreased significantly.

REFERENCES

[1]. Gomtsyan A, et al. Synthesis and Pharmacology of (Pyridin-2-yl)methanol Derivatives as Novel and Selective Transient Receptor Potential Vanilloid 3 Antagonists. J Med Chem. 2016;59(10):4926-4947.

[2]. Zhao J, et al. PAR2 Mediates Itch via TRPV3 Signaling in Keratinocytes. J Invest Dermatol. 2020;140(8):1524-1532.

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

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