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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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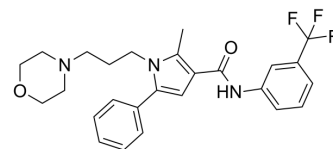
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HC-067047

Cat. No.:	HY-100208
CAS No.:	883031-03-6
Molecular Formula:	C ₂₆ H ₂₈ F ₃ N ₃ O ₂
Molecular Weight:	471.51
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (106.04 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.1208 mL	10.6042 mL	21.2085 mL
		5 mM	0.4242 mL	2.1208 mL	4.2417 mL
		10 mM	0.2121 mL	1.0604 mL	2.1208 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.30 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.30 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.30 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	HC-067047 is a potent and selective TRPV4 antagonist and reversibly inhibits currents through the human, rat, and mouse TRPV4 orthologs with IC ₅₀ values of 48 nM, 133 nM, and 17 nM, respectively ^[1] .
IC ₅₀ & Target	IC ₅₀ : 48 nM (human TRPV4), 133 nM (rat TRPV4), 17 nM (mouse TRPV4) ^[1]
In Vitro	HC-067047 (1 μM; 24 hours; HEI-OC1 cells) treatment significantly decreases mRNA expression in high glucose cultured HEI-OC1 cells^[2]. ?HC-067047 (1 μM; 24 hours; HEI-OC1 cells) treatment significantly decreases the expression of TRPV4 protein^[2]. ?HC-067047 (1 μM; 48 hours; HEI-OC1 cells) treatment inhibits cell proliferation^[2].

HC-067047 (1 μ M; 48 hours; HEI-OC1 cells) treatment promotes cell apoptosis^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

RT-PCR^[2]

Cell Line:	HEI-OC1 cells
Concentration:	1 μ M
Incubation Time:	24 hours
Result:	The mRNA expression was significantly decreased.

Western Blot Analysis^[2]

Cell Line:	HEI-OC1 cells
Concentration:	1 μ M
Incubation Time:	24 hours
Result:	The expression of TRPV4 protein was significantly decreased.

Cell Proliferation Assay^[2]

Cell Line:	HEI-OC1 cells
Concentration:	1 μ M
Incubation Time:	48 hours
Result:	Inhibited cell proliferation.

Apoptosis Analysis^[2]

Cell Line:	HEI-OC1 cells
Concentration:	1 μ M
Incubation Time:	48 hours
Result:	Promoted cell apoptosis.

In Vivo

HC-067047 (0-50 mg/kg; intraperitoneal injection; for 30 minutes; cyclophosphamide-treated WT and Trpv4^{+/?} mice, and naive WT mice) treatment increases functional bladder capacity and reduces micturition frequency in WT mice with cystitis. HC-067047 do not affect bladder function in Trpv4^{+/?} mice^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Cyclophosphamide-treated WT and Trpv4 ^{-/-} mice, and naive WT mice ^[1]
Dosage:	0 mg/kg, 1 mg/kg, 10 mg/kg, 50 mg/kg
Administration:	Intraperitoneal injection; for 30 minutes
Result:	Increased functional bladder capacity and reduces micturition frequency in WT mice with cystitis and did not affect bladder function in Trpv4 ^{-/-} mice.

CUSTOMER VALIDATION

- Cell Death Dis. 2023 Jun 28;14(6):379.
- Environ Pollut. 2020 Jan;256:113375.
- Acta Pharmacol Sin. 2022 Sep 23.
- Transl Res. 2023 Nov 4:S1931-5244(23)00181-0.
- Biomed Pharmacother. 2020 Feb;122:109697.

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

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