



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

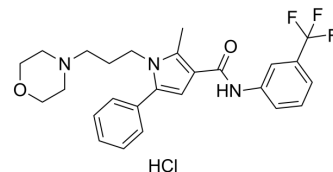
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

HC-067047 hydrochloride

Cat. No.:	HY-W721480
CAS No.:	1481646-76-7
Molecular Formula:	C ₂₆ H ₂₉ ClF ₃ N ₃ O ₂
Molecular Weight:	507.98
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HC-067047 hydrochloride 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] .
In Vitro	<p>HC-067047 (1 μM; 24 hours; HEI-OC1 cells) treatment significantly decreases mRNA expression in high glucose cultured HEI-OC1 cells^[2].</p> <p>HC-067047 (1 μM; 24 hours; HEI-OC1 cells) treatment significantly decreases the expression of TRPV4 protein^[2].</p> <p>HC-067047 (1 μM; 48 hours; HEI-OC1 cells) treatment inhibits cell proliferation^[2].</p> <p>HC-067047 (1 μM; 48 hours; HEI-OC1 cells) treatment promotes cell apoptosis^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>HC-067047 hydrochloride (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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Everaerts W et al. Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis. Proc Natl Acad Sci U S A. 2010 Nov 2;107(44):19084-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA