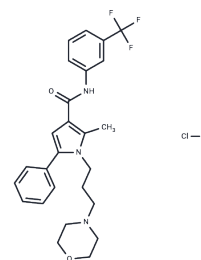


HC067047 Hydrochloride(883031-03-6 free base)

## Chemical Properties

CAS No. : 1481646-76-7  
 Formula: C<sub>26</sub>H<sub>29</sub>ClF<sub>3</sub>N<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 507.98  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	HC-067047 hydrochloride is a potent and selective TRPV4 antagonist, effectively and reversibly inhibiting currents through human, rat, and mouse TRPV4 orthologs with IC <sub>50</sub> values of 486 nM, 133 nM, and 17 nM, respectively.
Targets(IC <sub>50</sub> )	TRP/TRPV Channel
In vitro	TRPV4 is a hyperglycemia-related factor that can inhibit cell proliferation and promote cell apoptosis by activating the MAPK signaling pathway in HEI-OC1 cells[1].
In vivo	HC-067047 increases functional bladder capacity and reduces micturition frequency in mice and rats with cystitis[2].

## Solubility Information

Solubility	DMSO: 55 mg/mL (108.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9686 mL	9.8429 mL	19.6858 mL
5 mM	0.3937 mL	1.9686 mL	3.9372 mL
10 mM	0.1969 mL	0.9843 mL	1.9686 mL
50 mM	0.0394 mL	0.1969 mL	0.3937 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Xing Y , Ming J , Liu T , et al. Decreased Expression of TRPV4 Channels in HEI-OC1 Cells Induced by High Glucose Is Associated with Hearing Impairment[J]. Yonsei medical journal, 2018, 59(9).

Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis[J]. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107(44).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481