

Product Name: HC 067047

Catalog No.: 4100

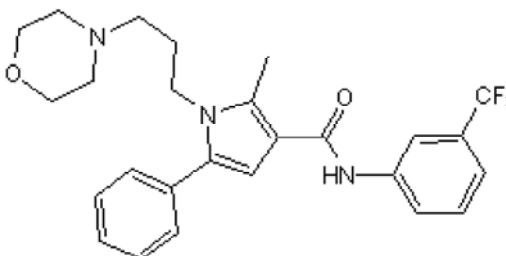
Batch No.: 1

CAS Number: 883031-03-6

IUPAC Name: 2-Methyl-1-[3-(4-morpholinyl)propyl]-5-phenyl-N-[3-(trifluoromethyl)phenyl]-1*H*-pyrrole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₈F₃N₃O₂
Batch Molecular Weight: 471.51
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.23	5.99	8.91
Found	66.12	5.99	8.86

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and selective TRPV4 antagonist. Reversibly inhibits currents through mouse, human and rat TRPV4 orthologs (IC₅₀ values are 17, 48 and 133 nM respectively). Also inhibits the endogenous TRPV4-mediated response to 4α-PDH (IC₅₀ = 22 nM). Selective for TRPV4 over TRPV1, TRPV2, TRPV3 and TRPM8 channels.

Physical and Chemical Properties:

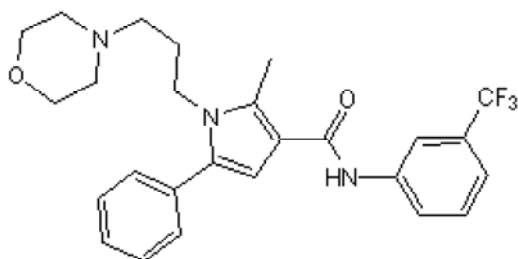
Batch Molecular Formula: C₂₆H₂₈F₃N₃O₂

Batch Molecular Weight: 471.51

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Everaerts et al (2010) Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis. *Proc.Natl.Acad.Sci.* **107** 19084.

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