

Product Name: ML 402

Catalog No.: 6888

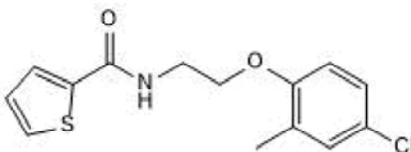
Batch No.: 1

CAS Number: 298684-44-3

IUPAC Name: *N*-[2-(4-Chloro-2-methylphenoxy)ethyl]-2-thiophenecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₄ClNO₂S
Batch Molecular Weight: 295.78
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.44 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.85	4.77	4.74
Found	56.8	4.87	4.79

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: ML 402

Catalog No.: 6888

Batch No.: 1

CAS Number: 298684-44-3

IUPAC Name: N-[2-(4-Chloro-2-methylphenoxy)ethyl]-2-thiophenecarboxamide

Description:

Selective TREK channel activator. Selectively activates $K_{2P}2.1$ (TREK-1) and $K_{2P}10.1$ (TREK-2) with no significant effect at $K_{2P}4.1$ channels (TRAAK).

Physical and Chemical Properties:

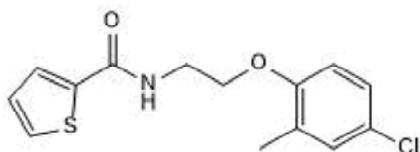
Batch Molecular Formula: $C_{14}H_{14}ClNO_2S$

Batch Molecular Weight: 295.78

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

References:

Lolicato et al (2017) $K_{2P}2.1$ (TREK-1)-activator complexes reveal a cryptic selectivity filter binding site. *Nature* **547** 364. PMID: 28693035.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956