

Certificate of Analysis

www.tocris.com

Product Name: Ani 9

Catalog No.: 6076

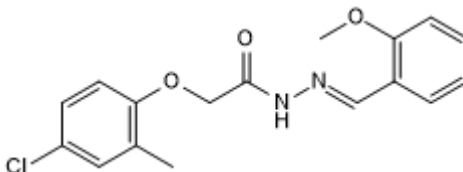
Batch No.: 1

CAS Number: 356102-14-2

IUPAC Name: 2-(4-Chloro-2-methylphenoxy)-*N*-(2-methoxybenzylidene)acetohydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₇ClN₂O₃
Batch Molecular Weight: 332.78
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.36	5.15	8.41
Found	61.32	5.33	8.46

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

Product Name: Ani 9

Catalog No.: 6076

Batch No.: 1

CAS Number: 356102-14-2

IUPAC Name: 2-(4-Chloro-2-methylphenoxy)-*N*-(2-methoxybenzylidene)acetohydrazide

Description:

Potent and selective TMEM16A (Anoctamin-1; ANO1) blocker (IC₅₀ = 77 nM). Displays no effect on ANO2 activity (at 10 μM). Also exhibits no effect on intracellular calcium signaling or CFTR and ENaC channel activity (at 30 μM).

Physical and Chemical Properties:

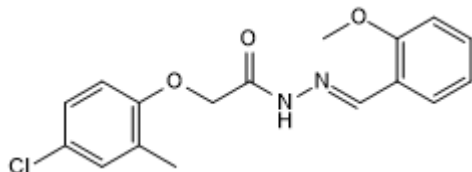
Batch Molecular Formula: C₁₇H₁₇ClN₂O₃

Batch Molecular Weight: 332.78

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Seo et al (2016) Ani9, a novel potent small-molecule ANO1 inhibitor with negligible effect on ANO2. *PLoS One* **11** e0155771. PMID: 27219012.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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.

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