

Certificate of Analysis

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Product Name: Ani 9

Catalog No.: 6076

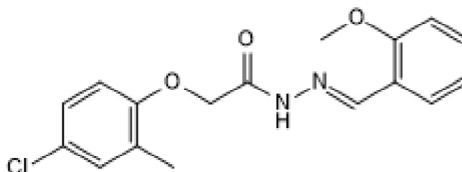
Batch No.: 1

CAS Number: 356102-14-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₇ H ₁₇ ClN ₂ O ₃
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

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Description:

Ani 9 is a potent and selective TMEM16A (Anoctamin-1; ANO1) blocker (IC_{50} = 77 nM). Displays no effect on ANO2 activity (at 10 μ M). Also exhibits no effect on intracellular calcium signaling or CFTR and ENaC channel activity (at 30 μ M).

Physical and Chemical Properties:

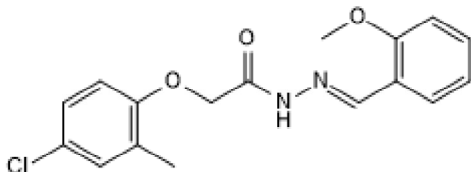
Batch Molecular Formula: $C_{17}H_{17}ClN_2O_3$

Batch Molecular Weight: 332.78

Physical Appearance: Off White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



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 $45-60^{\circ}\text{C}$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

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

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