

# Certificate of Analysis

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**Product Name:** Ani 9

**Catalog No.:** 6076

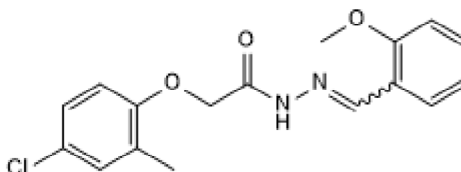
**Batch No.:** 2

**CAS Number:** 356102-14-2

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>17</sub> H <sub>17</sub> ClN <sub>2</sub> O <sub>3</sub>
<b>Batch Molecular Weight:</b>	332.78
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 10 mM with gentle warming
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.8% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	
	Carbon Hydrogen Nitrogen
Theoretical	61.36 5.15 8.42
Found	61.49 5.09 8.45

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

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## Product Information

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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  $\mu$ M). Also exhibits no effect on intracellular calcium signaling or CFTR and ENaC channel activity (at 30  $\mu$ M).

### Physical and Chemical Properties:

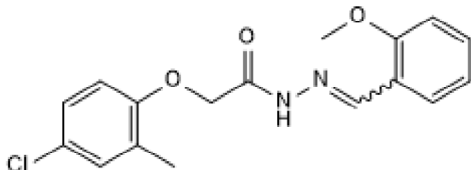
Batch Molecular Formula:  $C_{17}H_{17}ClN_2O_3$

Batch Molecular Weight: 332.78

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

### Batch Molecular Structure:



**Storage:** Store at  $-20^{\circ}\text{C}$

### 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  $-20^{\circ}\text{C}$  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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