

Product Name: JT010

Catalog No.: 6269

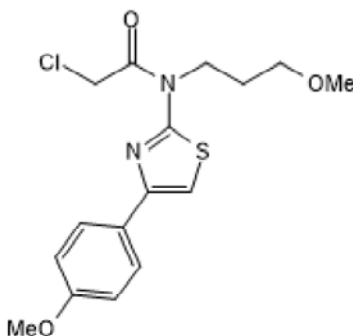
Batch No.: 1

CAS Number: 917562-33-5

IUPAC Name: 2-Chloro-*N*-[4-(4-methoxyphenyl)-2-thiazolyl]-*N*-(3-methoxypropyl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₉ClN₂O₃S
Batch Molecular Weight: 354.85
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 = 0.62 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.16	5.4	7.89
Found	54.39	5.36	7.88

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

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Description:

Potent and selective TRPA1 channel activator ($EC_{50} = 65$ nM); activates the TRPA1 channel by covalently and site-selectively binding to Cys621. Exhibits selectivity for TRPA1 over TRPV1, TRPV3, TRPV4, TRPM2, TRPM8, and TRPC5 channels (EC_{50} values are >1 μ M).

Physical and Chemical Properties:

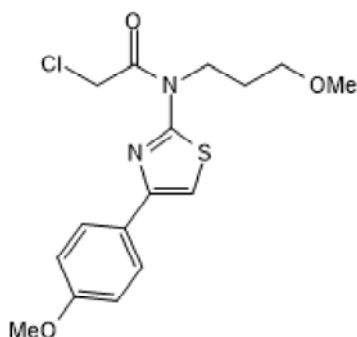
Batch Molecular Formula: $C_{16}H_{19}ClN_2O_3S$

Batch Molecular Weight: 354.85

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Takaya *et al* (2015) A potent and site-selective agonist of TRPA1. *J.Am.Chem.Soc.* **137** 15859. PMID: 26630251.

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.

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