

Certificate of Analysis

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Product Name: ZCL 278

Catalog No.: 4794

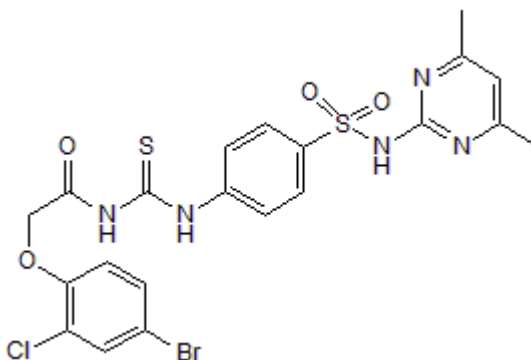
Batch No.: 1

CAS Number: 587841-73-4

IUPAC Name: 2-(4-Bromo-2-chlorophenoxy)-N-[[[4-[[[4,6-dimethyl-2-pyrimidinyl)amino]sulfonyl]phenyl]amino]thioxomethyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₉BrClN₅O₄S₂
Batch Molecular Weight: 584.89
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 95.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.12	3.27	11.97
Found	42.98	3.28	11.83

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

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Description:

Selective inhibitor of Cdc42. Targets the binding site of the Cdc42 guanine nucleotide exchange factor, intersectin (ITSN). Inhibits Cdc42-mediated cellular effects, including microspike formation in 3T3 fibroblasts and neuronal branching in primary neonatal cortical neurons. Also suppresses cell motility and migration in PC3 cells, without cytotoxic effects.

Physical and Chemical Properties:

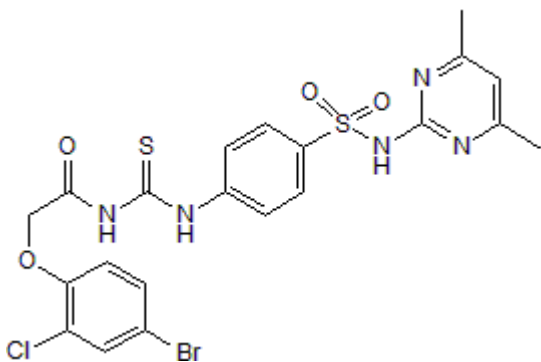
Batch Molecular Formula: C₂₁H₁₉BrClN₅O₄S₂

Batch Molecular Weight: 584.89

Physical Appearance: Yellow solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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:

Friesland et al (2013) Small molecule targeting Cdc42-intersectin interaction disrupts Golgi organization and suppresses cell motility. *Proc.Natl.Acad.Sci.USA* **110** 1261. PMID: 23284167.

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