

Certificate of Analysis

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Product Name: PTC 209

Catalog No.: 5191

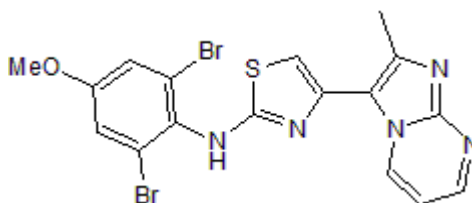
Batch No.: 1

CAS Number: 315704-66-6

IUPAC Name: *N*-(2,6-Dibromo-4-methoxyphenyl)-4-(2-methylimidazo[1,2-*a*]pyrimidin-3-yl)-2-thiazolamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₃Br₂N₅OS
Batch Molecular Weight: 495.19
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	41.23	2.65	14.14
Found	41.24	2.67	13.86

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

Product Information

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Description:

Bmi-1 inhibitor ($IC_{50} \sim 0.5 \mu M$); irreversibly impairs colorectal cancer-initiating cell (CIC) growth. Reduces tumor growth in CIC xenograft assays and results in reduced potential of colorectal cancer cells to initiate tumors in vivo.

Physical and Chemical Properties:

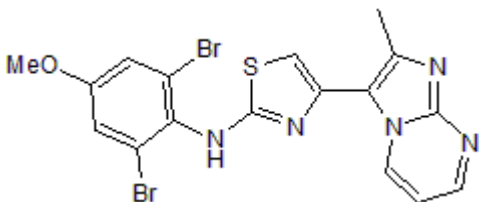
Batch Molecular Formula: $C_{17}H_{13}Br_2N_5OS$

Batch Molecular Weight: 495.19

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Kreso *et al* (2014) Self-renewal as a therapeutic target in human colorectal cancer. *Nat.Med.* **20** 29. PMID: 24292392.

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