

Certificate of Analysis

Product Name: AZM 475271

Catalog No.: 3963

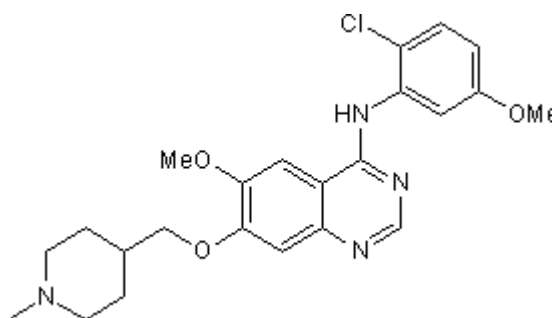
Batch No.: 1

CAS Number: 476159-98-5

IUPAC Name: *N*-(2-Chloro-5-methoxyphenyl)-6-methoxy

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₇ClN₄O₃
Batch Molecular Weight: 442.94
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.54 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.05])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.37	6.14	12.65
Found	62.18	6.11	12.69

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

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Description:

Src tyrosine kinase inhibitor. Reduces tumor size, vascularity and metastasis, and increases apoptosis in human pancreatic cells grown in nude mice. Also exhibits antiangiogenic activity in vitro and in vivo. Sensitizes tumor cells to the cytotoxic effects of gemcitabine (Cat. No. 3259).

Physical and Chemical Properties:

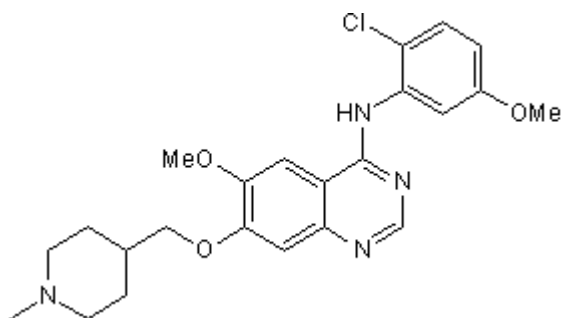
Batch Molecular Formula: C₂₃H₂₇ClN₄O₃

Batch Molecular Weight: 442.94

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Yezhelyev et al (2004) Inhibition of Src tyrosine kinase as treatment for human pancreatic cancer growing orthotopically in nude mice. *Clin.Cancer Res.* **10** 8028. PMID: 15585638.

Summy et al (2005) AP23846, a novel and highly potent Src family kinase inhibitor, reduces vascular endothelial growth factor and interleukin-8 expression in human solid tumor cell lines and abrogates downstream angiogenic processes. *Mol.Cancer Ther.* **4** 1900. PMID: 16373705.

Storage: Store at RT

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.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956