

Certificate of Analysis

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Product Name: AZ 191

Catalog No.: 5232

Batch No.: 1

CAS Number: 1594092-37-1

IUPAC Name: *N*-[2-Methoxy-4-(4-methyl-1-piperazinyl)phenyl]-4-(1-methyl-1*H*-pyrrolo[2,3-*c*]pyridin-3-yl)-2-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₇N₇O.1¼H₂O

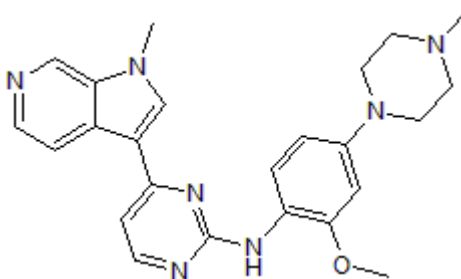
Batch Molecular Weight: 452.04

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 98.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.77	6.58	21.69
Found	63.81	6.29	21.51

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

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Description:

Potent DYRK1B inhibitor (IC₅₀ values are 17, 88 and 1890 nM for DYRK1B, DYRK1A and DYRK2 respectively). Inhibits DYRK1B-induced G₁ phase cell cycle arrest in Panc-1 cells in vitro.

Physical and Chemical Properties:

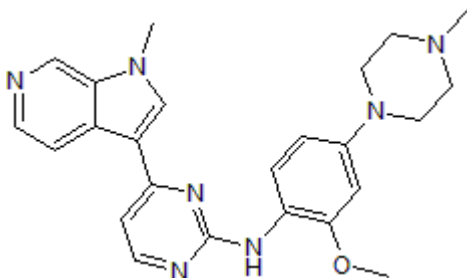
Batch Molecular Formula: C₂₄H₂₇N₇O.1¼H₂O

Batch Molecular Weight: 452.04

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Ashford et al (2014) A novel DYRK1B inhibitor AZ191 demonstrates that DYRK1B acts independently of GSK3β to phosphorylate cyclin D1 at Thr(286), not Thr(288). *Biochem.J.* **457** 43. PMID: 24134204.

Storage: Store at -20°C

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.

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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