

Certificate of Analysis

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Product Name: ABT 751

Catalog No.: 4138

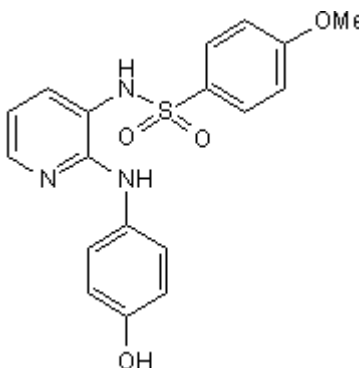
Batch No.: 1

CAS Number: 141430-65-1

IUPAC Name: *N*-[2-[(4-Hydroxyphenyl)amino]-3-pyridinyl]-4-methoxybenzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₇N₃O₄S
Batch Molecular Weight: 371.41
Physical Appearance: Pink solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.19 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.21	4.61	11.31
Found	58.14	4.54	11.29

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

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Description:

Antimitotic agent, inhibits microtubule polymerization. Binds to β -tubulin on the colchine site; blocks cell cycle at G₂M phase and induces apoptosis. Exhibits antitumor activity. Also displays activity in cell lines resistant to vincristine, doxorubicin and cisplatin. Orally bioavailable.

Physical and Chemical Properties:

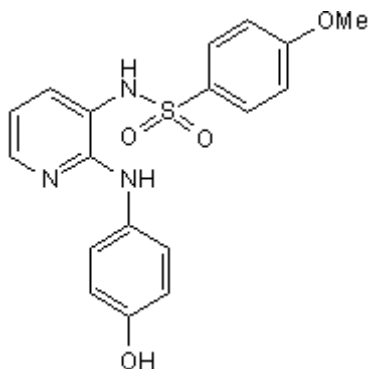
Batch Molecular Formula: C₁₈H₁₇N₃O₄S

Batch Molecular Weight: 371.41

Physical Appearance: Pink solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 25 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:

Hande et al (2006) The pharmacokinetics and safety of ABT-751, a novel, orally bioavailable sulfonamide antimitotic agent: results of a phase 1 study. *Clin.Cancer Res.* **12** 2834. PMID: 16675578.

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