

Certificate of Analysis

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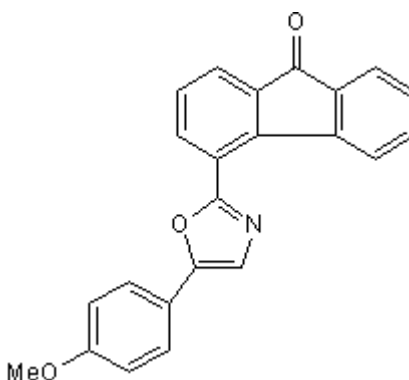
Product Name: UA 62784
CAS Number: 313367-92-9
IUPAC Name: 4-[5-(4-Methoxyphenyl)-2-oxazolyl]-9H-fluoren-9-one

Catalog No.: 4286

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{15}NO_3 \cdot \frac{1}{4}H_2O$
Batch Molecular Weight: 357.87
Physical Appearance: Yellow solid
Solubility: DMSO to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.39$ (Ethyl acetate:Petroleum ether [1:4])
HPLC: Shows 99.3% purity
 1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	77.19	4.37	3.91
Found	77.38	4.29	4.04

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Product Information

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Description:

Inhibitor of microtubule polymerization in vitro. Interacts with tubulin dimers and promotes the accumulation of mammalian cells in apoptosis. Potentiates antiproliferative effects of vinblastine (Cat. No. 1256) in H2B-GFP HeLa cells. Originally thought to inhibit CENP-E ATPase activity.

Physical and Chemical Properties:

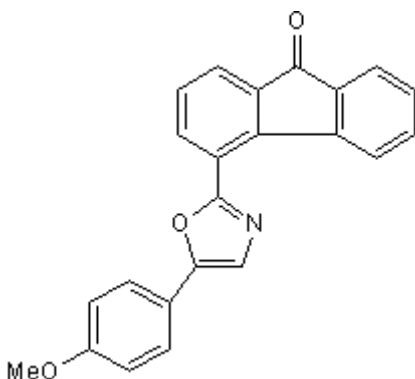
Batch Molecular Formula: C₂₃H₁₅NO₃ · ¼H₂O

Batch Molecular Weight: 357.87

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Tcherniuk et al (2011) UA62784 is a cytotoxic inhibitor of microtubules, not CENP-E. *Chem.Biol.* **18** 631. PMID: 21609844.

Maiato and Logarinho et al (2011) Motor-dependent and -independent roles of CENP-E at kinetochores: the cautionary tale of UA62784. *Chem.Biol.* **18** 679. PMID: 21700202.

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