Print Date: May 22nd 2014

Certificate of Analysis

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Product Name: TC-DAPK 6 **Catalog No.: 4301** **Batch No.: 1**

IUPAC Name: (4*Z*)-2-[(*E*)-2-Phenylethenyl)-4-(3-pyridinylmethylene)-5(4*H*)-oxazolone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{12}N_2O_2$

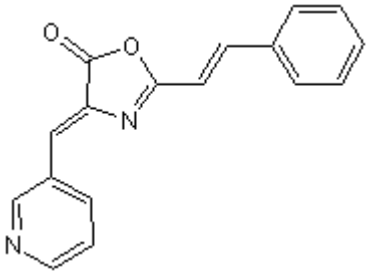
Batch Molecular Weight: 276.29

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM
ethanol to 10 mM with gentle warming

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.9	4.38	10.14
Found	73.68	4.53	10

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Description:

Potent and selective, ATP-competitive inhibitor of death-associated protein kinase 1 (DAPK1) (IC_{50} values are 69 and 225 nM for DAPK1 and DAPK3 respectively, when assayed with 10 µM ATP). Displays selectivity for DAPK1 over a range of 48 other kinases, including Abl, AMPK, Chk1, Met and Src (IC_{50} > 10 µM).

Physical and Chemical Properties:

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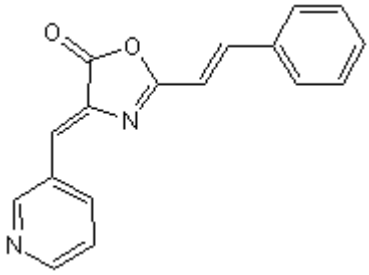
Batch Molecular Weight: 276.29

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol to 10 mM with gentle warming

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:

Okamoto *et al* (2009) Identification of death-associated protein kinases inhibitors using structure-based virtual screening. J.Med.Chem. ***52*** 7323. PMID: 19877644.