

Product Name: TC-DAPK 6

Catalog No.: 4301

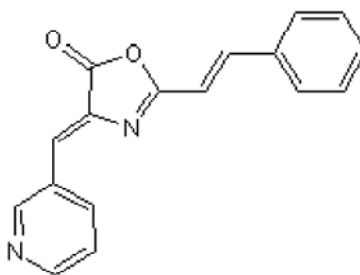
Batch No.: 1

CAS Number: 2439180-90-0

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂N₂O₂
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
¹H 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

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

Product Name: TC-DAPK 6

Catalog No.: 4301

1

CAS Number: 2439180-90-0

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

Description:

TC-DAPK 6 is a potent and selective, ATP-competitive inhibitor of death-associated protein kinase 1 (DAPK1) (IC₅₀ 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 (IC₅₀ > 10 μM).

Physical and Chemical Properties:

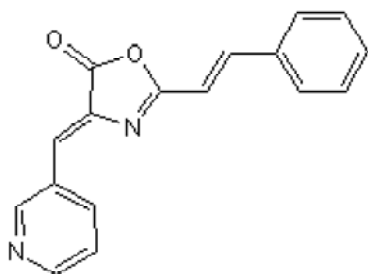
Batch Molecular Formula: C₁₇H₁₂N₂O₂

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.

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

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