

Certificate of Analysis

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Product Name: AGK 2

Catalog No.: 3233

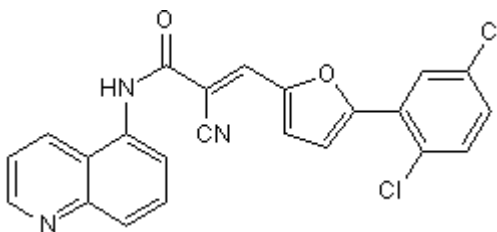
Batch No.: 1

CAS Number: 304896-28-4

IUPAC Name: 2-Cyano-3-[[5-(2,5-dichlorophenyl)-2-furanyl]-N-5-quinolinyl-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₁₃Cl₂N₃O₂
Batch Molecular Weight: 434.27
Physical Appearance: Yellow solid
Solubility: DMSO to 10 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.61	3.02	9.68
Found	63.13	3.11	9.53

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

Product Information

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IUPAC Name: 2-Cyano-3-[[5-(2,5-dichlorophenyl)-2-furanyl]-N-5-quinoliny]-2-propenamide

Description:

Selective inhibitor of SIRT2 (IC_{50} = 3.5 μ M). Displays no activity at SIRT1 and SIRT3 at concentrations up to 40 μ M. Reduces α -synuclein-mediated toxicity in in vitro and in vivo models of Parkinson's disease.

Physical and Chemical Properties:

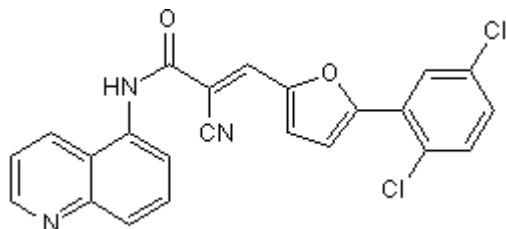
Batch Molecular Formula: $C_{23}H_{13}Cl_2N_3O_2$

Batch Molecular Weight: 434.27

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 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:

Outeiro *et al* (2007) Sirtuin 2 inhibitors rescue α -synuclein-mediated toxicity in models of Parkinson's disease. *Science* **317** 516. PMID: 17588900.

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