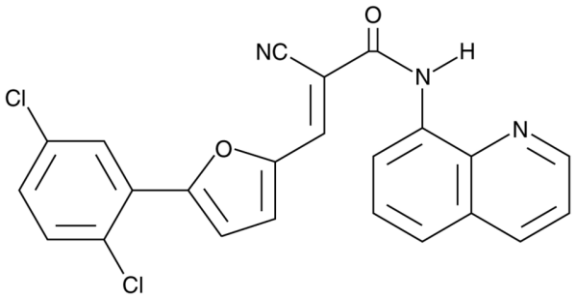
AGK7

08/19

ALTERNATE NAMES: 2-cyano-3-[5-(2,5-dichlorophenyl)furan-2-yl]-N-quinolin-8-ylprop-2-enamide; SIRT2 Inhibitor (Inactive Control)

CATALOG #:
B2843-1 1 mg
B2843-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{23}H_{13}Cl_2N_3O_2$

MOLECULAR WEIGHT: 434.27

CAS NUMBER: 304896-21-7

APPEARANCE: A crystalline solid

PURITY: ≥95%

SOLUBILITY:
~0.5 mg/ml in DMSO
~0.2 mg/ml in DMF

DESCRIPTION: AGK7 is an inactive control and an isomer of AGK2. AGK2 is a cell-permeable, selective inhibitor of SIRT2 which is a NAD+ (nicotinamide adenine dinucleotide)-dependent deacetylase (IC_{50} = 3.5 µM). AGK2 rescues α-synuclein toxicity in α-Syn-H4 cells while AGK7 does not affect α-synuclein aggregation. AGK7 inhibits SIRT3 with an IC_{50} value greater than 5 µM and inhibits SIRT1 and SIRT2 with an IC_{50} greater than 50 µM.

STORAGE TEMPERATURE: -20ºC

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Outeiro, T.F., Kontopoulos, E., Altmann, S.M., et al. Sirtuin 2 inhibitors rescue α-synuclein-mediated toxicity in models of Parkinson's Disease Science 317, 516-519 (2007).

RELATED PRODUCTS:

SIRT2 Inhibitor, AGK2 (Cat. No. 1651)
Tenovin-1 (Cat. No. 9400)
JFD00244 (Cat. No. B2830)
Sirtinol (Cat. No. 2062)
Tenovin-3 (Cat. No. B1828)
SIRT2 Inhibitor (Cat. No. 1857)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***