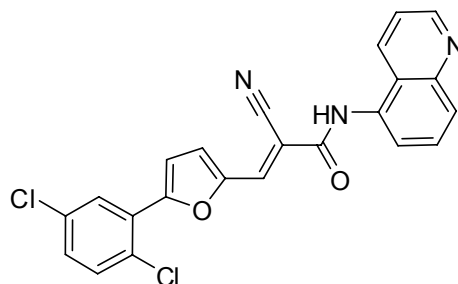


2-Cyano-3-[5-(2,5-dichlorophenyl)-2-furanyl]-N-5-quinolinyl-2-propenamamide - a potent inhibitor of sirtuin 2 (SIRT2)



Chemical Formula: C₂₃H₁₃Cl₂N₃O₂
Molecular Weight: 434.27

Ref.:

Kazantsev et al. **Sirtuin 2 Inhibitors Rescue α -Synuclein-Mediated Toxicity in Models of Parkinson's Disease.** *Science* (2007), 317, 516-519

The sirtuins are members of the histone deacetylase family of proteins that participate in a variety of cellular functions and play a role in aging. A potent inhibitor of sirtuin 2 (SIRT2) was identified and it was found that inhibition of SIRT2 rescued α -synuclein toxicity and modified inclusion morphology in a cellular model of Parkinson's disease. Genetic inhibition of SIRT2 via small interfering RNA similarly rescued α -synuclein toxicity. Furthermore, the inhibitors protected against dopaminergic cell death both in vitro and in a *Drosophila* model of Parkinson's disease. The results suggest a link between neurodegeneration and aging.

OTAVA catolg no.	CAS RN	Amount	Delivery time	Purity
0117392020	304896-28-4	1 mg 5 mg 2 grams	In-stock In-stock 7-12 business days	≥ 90% by HPLC & ¹ H NMR