

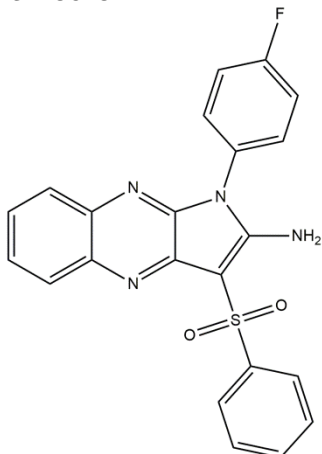
CAY10602

09/19

ALTERNATE NAMES: 3-(benzenesulfonyl)-1-(4-fluorophenyl)pyrrolo[3,2-b]quinoxalin-2-amine; 1-(4-Fluorophenyl)-3-(phenylsulfonyl)-1H-pyrrolo(2,3-B)quinoxalin-2-amine; SIRT1 Activator II

CATALOG #: B2914-5 5 mg
B2914-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₁₅FN₄O₂S

MOLECULAR WEIGHT: 418.4

CAS NUMBER: 374922-43-7

APPEARANCE: A crystalline solid

PURITY: ≥95%

SOLUBILITY: ~20 mg/ml in DMSO and DMF

DESCRIPTION: CAY10602 is an activator of SIRT1. The sirtuins (SIRT) are NAD⁺-dependent histone deacetylases. SIRT1 alters gene expression by deacetylating transcription factors such as NF-κB, p53, and FOXO. CAY10602 suppresses the NF-κB-dependent induction of TNF-α by lipopolysaccharide in THP-1 cells at 20 μM and 60 μM. It is more potent as a suppressor of TNF-α release than resveratrol.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

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

REFERENCE: Nayagam, V.M., Wang, X., Tan, Y.C., et al. SIRT1 modulating compounds from high-throughput screening as anti-inflammatory and insulin-sensitizing agents. *Journal of Biomolecular Screening* 11(8), 959-967 (2006).

RELATED PRODUCTS:

Resveratrol (Cat. No. 1758)
 Piceatannol (Cat. No. 2072)
 BML-278 (Cat. No. 2379)
 SirtAct (Cat. No. 2741)
 SIRT1720 (Cat. No. 2772)

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