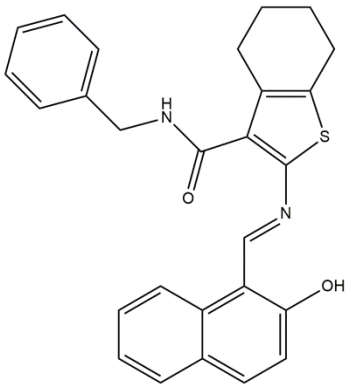
JGB1741

ALTERNATE NAME: 4,5,6,7-tetrahydro-2-[(E)-[(2-hydroxy-1-naphthalenyl)methylene]amino]-N-(phenylmethyl)-benzo[b]thiophene-3-carboxamide

CATALOG #:
B2804-1 1 mg
B2804-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{27}H_{24}N_2O_2S$

MOLECULAR WEIGHT: 440.56

CAS NUMBER: 1256375-38-8

APPEARANCE: Crystalline solid

PURITY: ≥98%

SOLUBILITY:
0.2 mg/ml in DMSO
~0.14 mg/ml in DMF

DESCRIPTION: JGB1741 is a small molecule inhibitor of SIRT1. The sirtuins (SIRTs) are NAD+-dependent histone deacetylases. The IC_{50} value of JGB1741 in a cell-free assay is 15 µM. The IC_{50} for cell proliferation of three cancer cell lines, K562, HepG2 and MDA-MB 231 is 1 µM, 10 µM and 0.5 µM, respectively. JGB1741 causes cytochrome c release, modulation in Bax/Bcl2 ratio and cleavage of PARP.

STORAGE TEMPERATURE: -20ºC

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

RELATED PRODUCTS:

Sirtinol (Cat. No. 2062)
SIRT2 Inhibitor, AGK2 (Cat. No. 1651)
Cambinol (Cat. No. 1653)
Inauhzin (Cat. No. 9555)
Salermide (Cat. No. 1873)

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