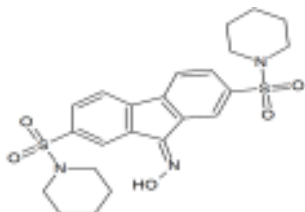


CIL56

ALTERNATE NAME: 2,7-bis(1-piperidinylsulfonyl)-9H-fluoren-9-one, oxime

CATALOG #: B3248-1 1 mg
B3248-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₃H₂₇N₃O₅S₂

MOLECULAR WEIGHT: 489.60

CAS NUMBER: 300802-28-2

APPEARANCE: Crystalline solid

PURITY: ≥98% by HPLC

SOLUBILITY: ~10 mg/ml DMSO

DESCRIPTION: CIL56 is a small molecule that acts as a selective ferroptosis inducer through the production of iron-dependent reactive oxygen species (ROS). It also induces accumulation of long-chain saturated, monounsaturated, and polyunsaturated fatty acids in HT-1080 cells in vitro. HT-1080 cells lacking acetyl-CoA carboxylase 1 (ACC1), the rate-limiting enzyme in fatty acid synthesis, exhibit 5-fold resistance to CIL56 treatment, indicating ACC1 activity sensitizes cells to CIL56-induced cell death.

STORAGE TEMPERATURE: -20°C. Protect from light

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

RELATED PRODUCTS:

RSL3 (B2303)
FIN56 (B2308)
iFSP1 (B2676)

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