

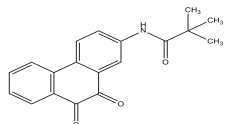
Product: SF1670

ALTERNATE NAME: N-(9,10-dihydro-9,10-dioxo-2-phenanthrenyl)-2,2-dimethylpropanamide

CATALOG #: 2774-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₉H₁₇NO₃

MOLECULAR WEIGHT: 307.34

CAS NUMBER: 345630-40-2

APPEARANCE: Light pink to dark purple solid

SOLUBILITY: DMSO (~10 mg/ml)

PURITY: ≥98%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: SF1670 is a selective PTEN (phosphatase and tensin homolog) inhibitor (IC₅₀ = 2 μM). It specifically binds to the active site of PTEN. At nanomolar concentrations it increases cellular phosphatidylinositol 3,4,5-trisphosphate (PIP₃) levels, phosphorylation of Akt, and glucose uptake in adipocytes. Pretreatment with SF1670 has been used to enhance PIP₃ signaling in transplanted neutrophils, augmenting their function at sites of infection in neutropenic recipient mice.

REFERENCE: Rosivatz, E., *et al.* (2006). *ACS Chem. Biol.* **1**, 780-790.

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

RELATED PRODUCTS:
bpV(phen) (Cat. No. 1793-5)

bpV(pic) (Cat. No. 1794-5)

VO-OHpic, Trihydrate (Cat. No. 1801-5, 25)

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