

Certificate of Analysis

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Product Name: SF 1670

Catalog No.: 5020

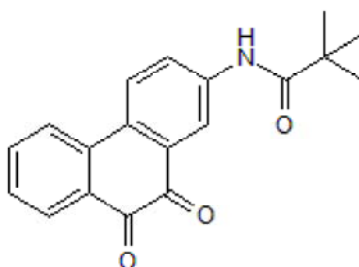
Batch No.: 1

CAS Number: 345630-40-2

IUPAC Name: *N*-(9,10-Dihydro-9,10-dioxo-2-phenanthrenyl)-2,2-dimethylpropanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₇NO₃
Batch Molecular Weight: 307.34
Physical Appearance: Dark red solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.65 (Dichloromethane:Methanol [98:2])
HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.25	5.58	4.56
Found	74.17	5.52	4.58

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

PTPN2 and PTEN inhibitor (IC₅₀ values are 0.95 and 1.78 μM, respectively). Increases fMLP-elicited PIP₃ signaling, Akt-phosphorylation and production of reactive oxygen species in neutrophils in vitro. Pretreatment of transfused neutrophils enhances chemotaxis to sites of bacterial infection and increases survival in neutropenic mice. Also inhibits CD45.

Physical and Chemical Properties:

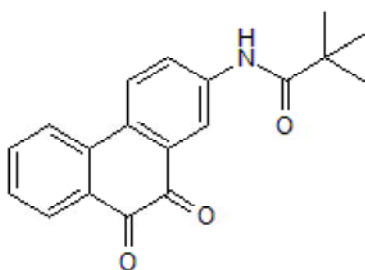
Batch Molecular Formula: C₁₉H₁₇NO₃

Batch Molecular Weight: 307.34

Physical Appearance: Dark red solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Le *et al* (2017) Inhibition of protein tyrosine phosphatase non-receptor type 2 by PTP inhibitor XIX: Its role as a multiphosphatase inhibitor. *BMB Rep.* **50** 329. PMID: 28228214 .

Li (2011) Pretreatment with phosphatase and tensin homolog deleted on chromosome 10 (PTEN) inhibitor SF1670 augments the efficacy of granulocyte transfusion in a clinically relevant mouse model. *Blood* **117** 6702. PMID: 21521784.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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