

Certificate of Analysis

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Product Name: MN 64

Catalog No.: 5084

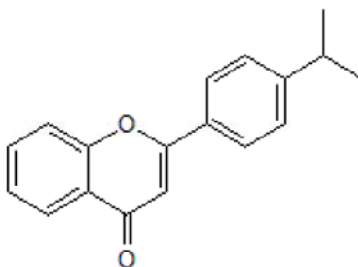
Batch No.: 1

CAS Number: 92831-11-3

IUPAC Name: 2-[4-(1-Methylethyl)phenyl]-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆O₂
Batch Molecular Weight: 264.32
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Petroleum ether [1:3])
HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.79	6.1	
Found	81.8	6.03	

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

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IUPAC Name: 2-[4-(1-Methylethyl)phenyl]-4*H*-1-benzopyran-4-one

Description:

Potent and selective tankyrase (TNKS) inhibitor (IC₅₀ values are 6 and 72 nM for TNKS1 and TNKS2 respectively). Has no significant effect on PARP-1 or PARP-2 (IC₅₀ >19 μM). Inhibits WNT/β-catenin signaling-dependent Super-TopFlash (STF) luciferase activity.

Physical and Chemical Properties:

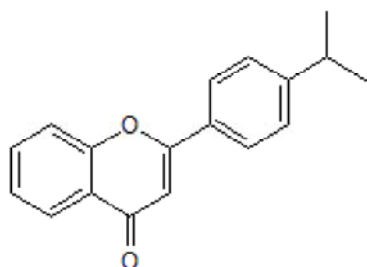
Batch Molecular Formula: C₁₈H₁₆O₂

Batch Molecular Weight: 264.32

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Narwal *et al* (2013) Discovery of tankyrase inhibiting flavones with increased potency and isoenzyme selectivity. *J.Med.Chem.* **56** 7880. PMID: 24116873.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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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