

Product Name: Napabucasin

Catalog No.: 5522

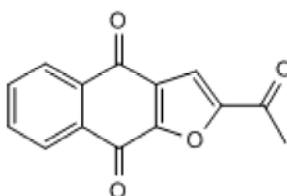
Batch No.: 1

CAS Number: 83280-65-3

IUPAC Name: 2-Acetylnaphtho[2,3-*b*]furan-4,9-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₈O₄
Batch Molecular Weight: 240.21
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Ethyl acetate:Petroleum ether [2:3])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70	3.36	
Found	69.88	3.43	

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

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CAS Number: 83280-65-3

IUPAC Name: 2-Acetylnaphtho[2,3-*b*]furan-4,9-dione

Description:

STAT3 inhibitor. Blocks spherogenesis of cancer stem cells (CSC), but not hematopoietic stem cells. Inhibits PaCa-2 xenograft tumor growth in mice, even after cessation of treatment, and decreases population of CSCs in PaCa-2 tumors from treated mice. Also blocks spleen and liver metastases of colon cancer cells in a mouse model.

Physical and Chemical Properties:

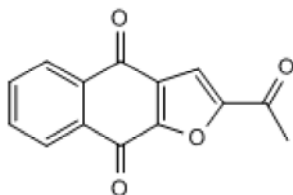
Batch Molecular Formula: C₁₄H₈O₄

Batch Molecular Weight: 240.21

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Li *et al* (2015) Suppression of cancer relapse and metastasis by inhibiting cancer stemness. Proc.Natl.Acad.Sci.USA. **112** 1839. PMID: 25605917.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956