

Product Name: INCA-6

Catalog No.: 2162

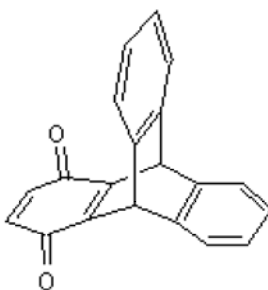
Batch No.: 1

CAS Number: 3519-82-2

IUPAC Name: 9,10-Dihydro-9,10[1',2']-benzenoanthracene-1,4-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₂O₂
Batch Molecular Weight: 284.31
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.77 (Chloroform)
Melting Point: Between 294 - 296°C
HPLC: Shows 95.9% purity
¹H NMR: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 84.49 | 4.25 | |
| Found | 84.21 | 4.23 | |

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Description:

INCA-6 is an inhibitor of interaction between calcineurin and its substrate nuclear factor of activated T cells (NFAT); blocks at the substrate recognition site but not at the catalytic site ($K_d = 0.8$ mM). Inhibits NFAT dephosphorylation and nuclear import. Also prevents induction of cytokine mRNAs that are downstream targets of NFAT.

Physical and Chemical Properties:

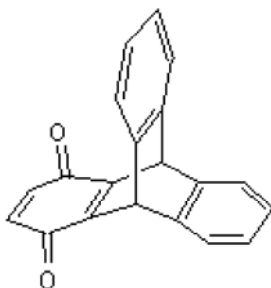
Batch Molecular Formula: C₂₀H₁₂O₂

Batch Molecular Weight: 284.31

Physical Appearance: Yellow solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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.

References:

Roehrl *et al* (2004) Selective inhibition of calcineurin-NFAT signaling by blocking protein-protein interaction with small organic molecules. *Proc.Natl.Acad.Sci.USA* **101** 7554.

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