

Certificate of Analysis

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Product Name: 4-IPP

Catalog No.: 3429

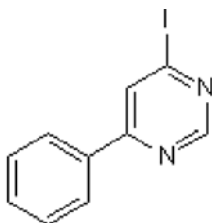
Batch No.: 3

CAS Number: 41270-96-6

IUPAC Name: 4-Iodo-6-phenylpyrimidine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₇IN₂
Batch Molecular Weight: 282.08
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: consistent with structure
Mass Spectrum: consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.58	2.5	9.93
Found	42.47	2.4	9.92

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

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

Product Name: 4-IPP

Catalog No.: 3429

Batch No.: 3

CAS Number: 41270-96-6

IUPAC Name: 4-Iodo-6-phenylpyrimidine

Description:

Inhibitor of macrophage migration inhibitory factor (MIF). Acts as a suicide substrate to inactivate MIF catalytic and biological functions; inhibits MIF-associated liver enzyme activity in vivo. Also inhibits migration and anchorage independence of human lung adenocarcinoma cell lines in vitro.

Physical and Chemical Properties:

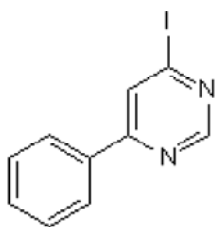
Batch Molecular Formula: C₁₀H₇IN₂

Batch Molecular Weight: 282.08

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



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

ethanol to 50 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:

Winner et al (2008) A novel, macrophage migration inhibitory factor suicide substrate inhibits motility and growth of lung cancer cells. *Cancer Res.* **68** 7253. PMID: 18794110.

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