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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **Paprotrain** **Catalog No.: 4813** **Batch No.: 1**

CAS Number: 57046-73-8

IUPAC Name: (*Z*)-α-(3-Pyridinylmethylene)-1*H*-indole-3-acetonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{11}N_3$

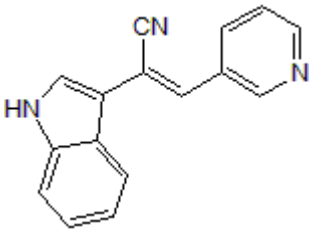
Batch Molecular Weight: 245.28

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.12 (Ethyl acetate:Petroleum ether [1:2])

HPLC: Shows 99.4% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.35	4.52	17.13
Found	78.32	4.34	17.34

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Description:

Reversible, non-ATP competitive inhibitor of mitotic kinesin-like protein 2 (MKLP-2) (K_i = 3.4 μM). Inhibits the basal ATPase activity of MKLP-2 (IC_{50} = 1.35 μM). Exhibits selectivity for MKLP-2 over 12 other members of the kinesin superfamily, including the closely-related MKLP-1. Cell permeable.

Physical and Chemical Properties:

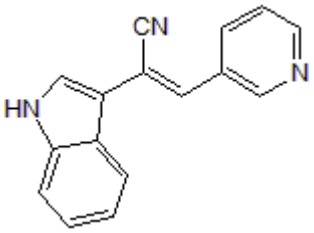
Batch Molecular Formula: $C_{16}H_{11}N_3$

Batch Molecular Weight: 245.28

Physical Appearance: Yellow solid

Minimum Purity: >99%

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 10 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:

Tcherniuk *et al* (2010) Relocation of Aurora B and survivin from centromeres to the central spindle impaired by a kinesin-specific MKLP-2 inhibitor. Agnew Chem.Int.Ed.Engl. ***49*** 8228. PMID: 20857469.

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