

Certificate of Analysis

Product Name: ProINDY

Catalog No.: 4998

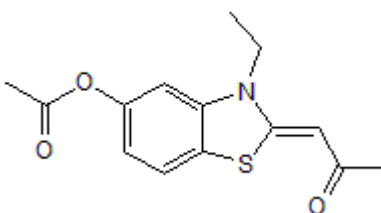
Batch No.: 1

CAS Number: 719277-30-2

IUPAC Name: (1Z)-1-(5-Acetyloxy-3-ethyl-2(3H)-benzothiazolylidene)-2-propanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₅NO₃S
Batch Molecular Weight: 277.34
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.53 (Dichloromethane:Methanol [95:5])
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.63	5.45	5.05
Found	60.86	5.4	5.13

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

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Description:

DYRK1A/B inhibitor; prodrug form of INDY (Cat. No. 4997). Cell permeable. Inhibits phosphorylation of tau protein and rescues repressed calcineurin/NFAT signaling. Recovers *Xenopus* embryos from head malformation induced by DYRK1A overexpression in vivo.

Physical and Chemical Properties:

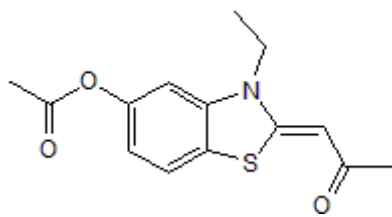
Batch Molecular Formula: C₁₄H₁₅NO₃S

Batch Molecular Weight: 277.34

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

References:

Ogawa *et al* (2010) Development of a novel selective inhibitor of the Down syndrome-related kinase Dyrk1A. *Nat. Commun.* **1** 86. PMID: 20981014.

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