

Product Name: CASIN

Catalog No.: 5050

Batch No.: 2

CAS Number: 425399-05-9

IUPAC Name: 2-[(2,3,4,9-Tetrahydro-6-phenyl-1*H*-carbazol-1-yl)amino]ethanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₂N₂O.¼H₂O

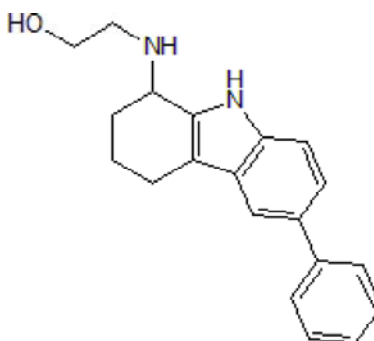
Batch Molecular Weight: 310.9

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 77.26 | 7.29 | 9.01 |
| Found | 77.51 | 7.18 | 9.08 |

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: CASIN

Catalog No.: 5050

Batch No.: 2

CAS Number: 425399-05-9

IUPAC Name: 2-[(2,3,4,9-Tetrahydro-6-phenyl-1*H*-carbazol-1-yl)amino]ethanol

Description:

Cdc42 GTPase inhibitor (IC₅₀ = 2 μM). Reduces active levels of Cdc42 in aged hematopoietic stem cells (HSCs) to that in young HSCs. Reverses the aging-related and polarity phenotype of aged HSCs to that of young HSCs in vivo. Increases histone H4K16 acetylation in aged HSCs.

Physical and Chemical Properties:

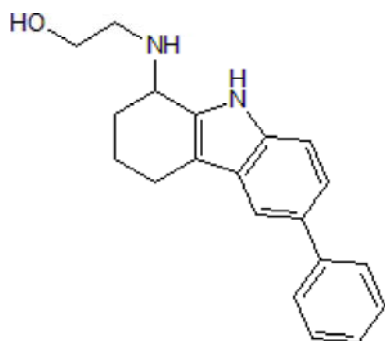
Batch Molecular Formula: C₂₀H₂₂N₂O.¼H₂O

Batch Molecular Weight: 310.9

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

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:

Li *et al* (2013) Chemical approaches to stem cell biology and therapeutics. *Cell Stem Cell* **13** 270. PMID: 24012368.

Florian *et al* (2012) Cdc42 activity regulates hematopoietic stem cell aging and rejuvenation. *Cell Stem Cell* **10** 520. PMID: 22560076.

Peterson *et al* (2006) Biochemical suppression of small-molecule inhibitors: a strategy to identify inhibitor targets and signaling pathway components. *Chem.Biol.* **13** 443. PMID: 16632257.

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