

Certificate of Analysis

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Product Name: OAC-1

Catalog No.: 4887

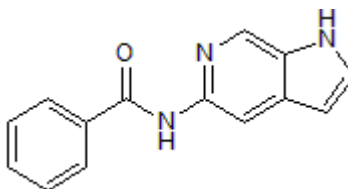
Batch No.: 1

CAS Number: 300586-90-7

IUPAC Name: *N*-1*H*-Pyrrolo[2,3-*c*]pyridin-5-ylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₁N₃O·¼H₂O
Batch Molecular Weight: 241.76
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 69.55 | 4.79 | 17.38 |
| Found | 69.74 | 4.76 | 17.32 |

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

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Description:

Oct4 activator. Enhances and accelerates iPSC reprogramming in the presence of 4F (Oct4, Sox2, c-Myc and Klf4) by ~20-fold compared to 4F alone. Induces mRNA expression of Oct4, Sox2 and Nanog and also Tet1. Displays no effects on p53-p21 pathway or Wnt-β-catenin signaling.

Physical and Chemical Properties:

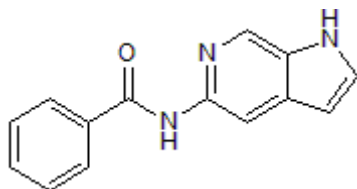
Batch Molecular Formula: C₁₄H₁₁N₃O.¼H₂O

Batch Molecular Weight: 241.76

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Li *et al* (2012) Identification of Oct4-activating compounds that enhance reprogramming efficiency. *Proc.Natl.Acad.Sci.U S A* **109** 20853. PMID: 23213213.

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