

Certificate of Analysis

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Product Name: OAC-2

Catalog No.: 6066

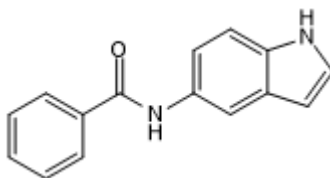
Batch No.: 1

CAS Number: 6019-39-2

IUPAC Name: *N*-(1*H*-Indol-5-yl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₂N₂O
Batch Molecular Weight: 236.27
Physical Appearance: Brown solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.25	5.12	11.85
Found	76.37	5.22	11.87

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

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Description:

Oct 4 activator; enhances iPSC reprogramming fourfold and accelerates the appearance of iPSC colonies in combination with 4F (Oct4, Sox2, c-Myc and Klf4). Also induces cardiomyocyte-like cells from human fibroblast cells, as part of the 9C cocktail (CHIR99021, A83-01, BIX01294, AS83541, SC1, Y27632, SU 16f, JNJ10198409 and OAC-2)

Physical and Chemical Properties:

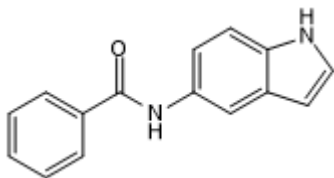
Batch Molecular Formula: C₁₅H₁₂N₂O

Batch Molecular Weight: 236.27

Physical Appearance: Brown solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Cao et al (2016) Conversion of human fibroblasts into functional cardiomyocytes by small molecules. *Science* **352** 1216. PMID: 27127239.

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

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.

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