

Product Name: ID 8

Catalog No.: 3853

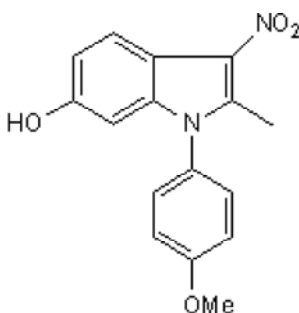
Batch No.: 1

CAS Number: 147591-46-6

IUPAC Name: 1-(4-Methoxyphenyl)-2-methyl-3-nitro-1*H*-indol-6-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄N₂O₄
Batch Molecular Weight: 298.29
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.42	4.73	9.39
Found	64.3	4.65	9.32

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

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Description:

Sustains self-renewal and pluripotency of mouse embryonic stem cells (ESCs) in vitro. Stimulates proliferation at a steady rate (observed in serum-free media supplemented with 10 µM over a 30 day period). Also supports human PSC maintenance in combinations with Wnt3a. DYRK inhibitor

Physical and Chemical Properties:

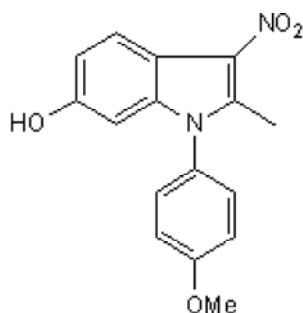
Batch Molecular Formula: C₁₆H₁₄N₂O₄

Batch Molecular Weight: 298.29

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°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:

Hasegawa *et al* (2012) Wnt signaling orchestration with a small molecule DYRK inhibitor provides long-term xeno-free human pluripotent cell expansion. *Stem Cells Transl.Med.* **1** 18. PMID: 23197636.

Firestone and Chen (2009) Controlling destiny through chemistry: small-molecule regulators of cell fate. *ACS Chem.Biol.* **5** 15.

Miyabayashi *et al* (2008) Indole derivatives sustain embryonic stem cell self-renewal in long-term culture. *Biosci.Biotechnol.Biochem.* **72** 1242. PMID: 18460821.

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