

Certificate of Analysis

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Product Name: IC 261

Catalog No.: 6676

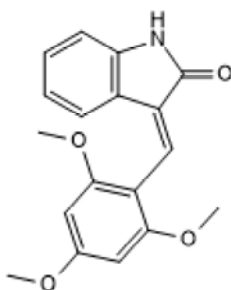
Batch No.: 1

CAS Number: 186611-52-9

IUPAC Name: 1,3-Dihydro-3-[(2,4,6-trimethoxyphenyl)methylene]-2H-indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₇NO₄
Batch Molecular Weight: 311.33
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.44	5.5	4.5
Found	69.49	5.51	4.62

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

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Description:

ATP-competitive casein kinase 1 (CK1) inhibitor. Displays >15 fold selectivity for CK1δ and CK1ε over CK1α (IC₅₀ values are approximately 1 μM for CK1δ and CK1ε and 16 μM for CK1α). Arrests cell cycle at postmitotic G₁ phase in cells expressing p53. Inhibits CK1 mediated phosphorylation of LRRK2 in cell lines.

Physical and Chemical Properties:

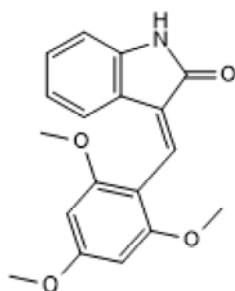
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Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Chia et al (2014) Phosphorylation of LRRK2 by casein kinase 1α regulates trans-Golgi clustering via differential interaction with ARHGEF7. *Nat. Commun.* **5** 5827. PMID: 25500533.

Behrend et al (2000) IC261, a specific inhibitor of the protein kinases casein kinase 1-delta and -epsilon, triggers the mitotic checkpoint and induces p53-dependent postmitotic effects. *Oncogene* **19** 5303. PMID: 11103931.

Mashhoon et al (2000) Crystal structure of a conformation-selective casein kinase-1 inhibitor. *J. Med. Chem.* **275** 20052. PMID: 10749871.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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.

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