

Product Name: endo-IWR 1

Catalog No.: 3532

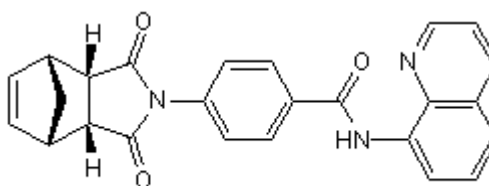
Batch No.: 1

CAS Number: 1127442-82-3

IUPAC Name: [(3a*R**,4*S**,7*R**,7a*S*)-1,3,3a,4,7,7a-Hexahydro-1,3-dioxo-4,7-methano-2*H*-isoindol-2-yl]-*N*-8-quinolinybenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₁₉N₃O₃
Batch Molecular Weight: 409.44
Physical Appearance: white solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



(and enantiomer)

2. ANALYTICAL DATA

TLC: R_f = 0.25 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.34	4.68	10.26
Found	72.93	4.74	10.16

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Description:

Inhibitor of Wnt signaling. Induces an increase in Axin2 protein levels; promotes β -catenin phosphorylation by stabilizing Axin-scaffolded destruction complexes. Negative control exo-IWR (Cat. No. 3947) available.

Physical and Chemical Properties:

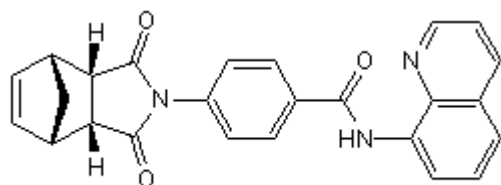
Batch Molecular Formula: C₂₅H₁₉N₃O₃

Batch Molecular Weight: 409.44

Physical Appearance: white solid

Minimum Purity: >98%

Batch Molecular Structure:



(and enantiomer)

Storage: Store at RT

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:

Chen et al (2008) Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. *Nature Chem.Biol.* **5** 100.

Lu et al (2009) Structure-activity relationship studies of small-molecule inhibitors of Wnt response. *Bioorg.Med.Chem.Lett.* **19** 3825. PMID: 19410457.

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