bio-techne
TOCRIS

Print Date: Nov 3rd 2025

Certificate of Analysis

www.tocris.com

Product Name: ***endo*-IWR 1** **Catalog No.: 3532** **Batch No.: 2**

CAS Number: 1127442-82-3

IUPAC Name: *rel*-4-[(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-quinolinylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{19}N_3O_3$.

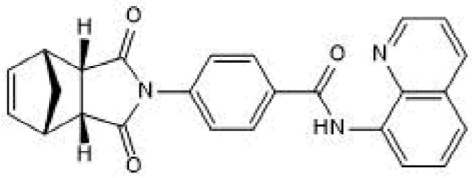
Batch Molecular Weight: 409.44

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.34	4.68	10.26
Found	73.01	4.71	10.39

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Description:

endo-IWR 1 is an inhibitor of Wnt signaling. Induces an increase in axin2 protein levels; promotes β-catenin phosphorylation by stabilizing Axin-scaffolded destruction complexes. Promotes endothelial cell specification of cardiac progenitor cells and may be used in protocols for the generation of retinal pigment epithelial cells from hPSCs, and for the generation and propagation of EPS cells (see our protocol below). Negative Control also available. endo-IWR 1 synthesized to Ancillary Material Grade also available. For more information about how endo-IWR 1 may be used, see our protocol: Generation and Propagation of EPS cells (LCD... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

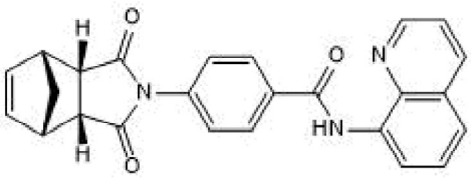
Batch Molecular Formula: $C_{25}H_{19}N_3O_3$.

Batch Molecular Weight: 409.44

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Surendran *et al* (2022) An improved protocol for generation and characterization of human-induced pluripotent stem cell-derived retinal pigment epithelium cells. STAR Protoc. ***3*** 101803. PMID: 36386870.

Reichman *et al* (2018) Wnt inhibition promotes vascular specification of embryonic cardiac progenitors. Development ***145*** dev159905. PMID: 29217753.

Lancaster *et al* (2015) Generation of cerebral organoids from human pluripotent stem cells. Nat.Protoc. ***9*** 2329. PMID: 25188634.

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