IWR-1-exo
Catalog No. 13598

CAS Registry No.: 1127442-87-8
Formal Name: 4-[(3aR,4S,7R,7aS)-1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isindol-2-yl]-N-8-quinolinyl- benzamide

MF: C_{19}H_{19}N_{2}O_{3}
FW: 409.4
Purity: ≥ 98%
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that IWR-1-exo be stored as supplied at -20°C. It should be stable for at least two years.

IWR-1-exo is supplied as a crystalline solid. A stock solution may be made by dissolving the IWR-1-exo in the solvent of choice. IWR-1-exo is soluble in organic solvents such as chloroform, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of IWR-1-exo in chloroform, DMSO, and DMF is approximately 1, 0.3, and 5 mg/ml, respectively.

IWR-1-endo is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, IWR-1-exo should first be dissolved in DMF and then diluted with the aqueous buffer of choice. IWR-1-exo has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Wnt signaling proteins are small secreted proteins that are active in embryonic development, tissue homeostasis, and tumorigenesis. Wnt proteins bind to receptors on the cell surface, initiating a signaling cascade that leads to β-catenin activation of gene transcription. IWR-1-exo is a diastereomer of IWR-1-endo, the potent inhibitor of the Wnt response. Whereas IWR-1-endo strongly blocks cell-based Wnt/β-catenin pathway reporter response (IC_{50} = 180 nM) and suppresses Wnt-dependent zebrafish tail fin regeneration (0.5 μM), IWR-1-exo has little effect in either assay at 10 μM. Thus, this compound is an ideal control for tests involving the active form, IWR-1-endo.

References

Related Product
IWR-1-endo - Cat. No. 13659

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Any refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.