Enabling Science through Innovation

Technical Data Sheet

endo-IWR-1

Catalog Number :1128234

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: IWR-1-endo, IWR-1, IWR1-endo

Chemical Name: 4-[(3aR,4S,7R,7aS)-1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl]-N-8-quinolinylbenzamide

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

Molecular Weight: 409.4

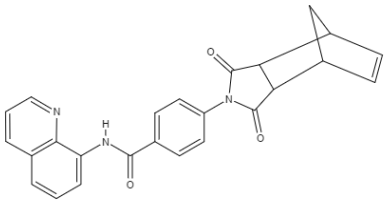
CAS Number: 1127442-82-3

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Endo-IWR-1 is a Wnt pathway inhibitor that stabilizes the axis inhibition protein 2 (AXIN2) or conductin. It is reported to maintain pluripotency of human embryonic stem cells when used with CHIR99021 and promote Beta-catenin phosphorylation.

Preparation & Storage

Soluble in organic solvents such as DMF or DMSO. DMSO up to 45mM.

References

1.Huang, S. M. A., Mishina, Y. M., Liu, S., Cheung, A., Stegmeier, F., Michaud, G. A., ... Cong, F. (2009). Tankyrase inhibition stabilizes axin and antagonizes Wnt signalling.;Nature,;461(7264), 614-620.

2. Chen, B., Dodge, M. E., Tang, W., Lu, J., Ma, Z., Fan, C. W., ... Lum, L. (2009). Small molecule;mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer.;Nature chemical biology,;5(2), 100-107.

3. Bao, R., Christova, T., Song, S., Angers, S., Yan, X., Attisano, L. (2012). Inhibition of tankyrases induces Axin stabilization and blocks Wnt signalling in breast cancer cells.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316