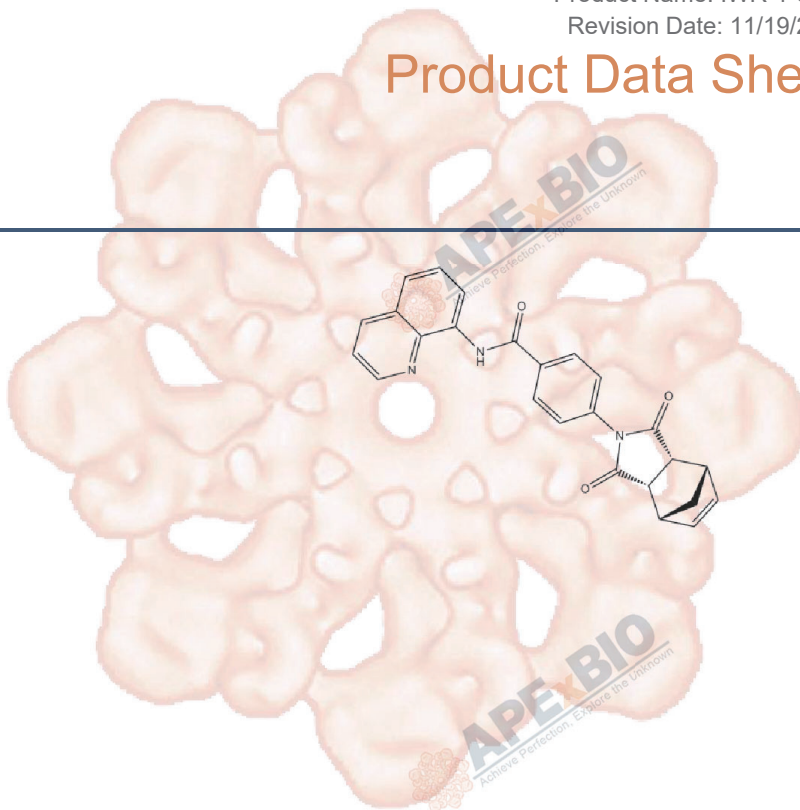


Product Data Sheet

IWR-1-endo

| | |
|------------------|---|
| Cat. No.: | B2306 |
| CAS No.: | 1127442-82-3 |
| Formula: | C ₂₅ H ₁₉ N ₃ O ₃ |
| M.Wt: | 409.44 |
| Synonyms: | |
| Target: | Stem Cell |
| Pathway: | Wnt/ β -catenin |
| Storage: | Store at -20°C |



Solvent & Solubility

insoluble in EtOH; insoluble in H₂O; ≥ 20.45 mg/mL in DMSO

In Vitro

| Preparing Stock Solutions | Solvent | Mass | | |
|---------------------------|----------------------|-----------|------------|------------|
| | | 1mg | 5mg | 10mg |
| | Concentration | | | |
| | 1 mM | 2.4424 mL | 12.2118 mL | 24.4236 mL |
| | 5 mM | 0.4885 mL | 2.4424 mL | 4.8847 mL |
| | 10 mM | 0.2442 mL | 1.2212 mL | 2.4424 mL |

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

Potent Wnt signaling inhibitor

IC₅₀ & Target

180 nM (Wnt signaling)

In Vitro

Cell Viability Assay

| | |
|----------------------|---|
| Cell Line: | DLD-1 colorectal cancer (CRC) cell line |
| Preparation method: | The solubility of this compound in DMSO is >20.5mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months. |
| Reacting conditions: | 1 μ M, 2.5 μ M, 10 μ M |

| | | |
|---------|--------------------------|--|
| | Applications: | IWR-1-endo promoted β -catenin destruction through promoting stability of Axin-scaffolded destruction complexes in the DLD-1 colorectal cancer (CRC) cell line. IWR-1-endo blocked aberrant cell growth supported by hyperactivation of Wnt/ β -catenin resulting from Apc loss. |
| In Vivo | Animal experiment | |
| | Animal models: | Zebrafish |
| | Dosage form: | 10 mM, 24 h |
| | Applications: | IWR-1-endo inhibited tailfin regeneration and epithelial stem cell self-renewal in zebrafish. |
| | Other notes: | Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal. |

Product Citations

1.Suknuntha K, Tao L, et al."Optimization of Synthetic mRNA for Highly Efficient Translation and its Application in the Generation of Endothelial and Hematopoietic Cells from Human and Primate Pluripotent Stem Cells." Stem Cell Rev. 2018 Mar 8.PMID:29520567

See more customer validations on www.apexbt.com.

References

[1]. Chen B, Dodge ME, Tang W, Lu J, Ma Z, Fan CW, Wei S, Hao W, Kilgore J, Williams NS, Roth MG, Amatruda JF, Chen C, Lum L. Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. Nat Chem Biol. 2009 Feb;5(2):100-7.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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