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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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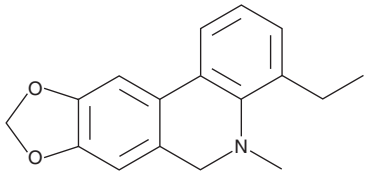
PRODUCT INFORMATION

HLY78

Item No. 19087

CAS Registry No.:	854847-61-3
Formal Name:	4-ethyl-5,6-dihydro-5-methyl-[1,3]dioxolo[4,5-j]phenanthridine
MF:	$C_{17}H_{17}NO_2$
FW:	267.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 214, 282, 319 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

HLY78 is supplied as a crystalline solid. A stock solution may be made by dissolving the HLY78 in the solvent of choice. HLY78 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of HLY78 in ethanol and DMSO is approximately 2 mg/ml and approximately 12 mg/ml in DMF.

HLY78 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, HLY78 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. HLY78 has a solubility of approximately 0.2 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Wnt signaling proteins are small secreted proteins that are active in embryonic development, tissue homeostasis, and tumorigenesis.[1-3] HLY78 is a positive modulator of the Wnt/β-catenin pathway, as it augments Wnt-mediated signaling in cells at concentrations of 5 to 20 µM.[4] It has no significant effect alone, and it does not affect LiCl-stimulated β-catenin signaling. A biotinylated form of HLY78 binds Axin at its DIX domain, which is thought to potentiate Axin-LRP6 association.[4] HLY78 activates Wnt signaling *in vivo*, altering Wnt-dependent gene expression and embryonic development in zebrafish.[4]

References

1. Polakis, P. Wnt signaling and cancer. *Genes Dev.* **14**, 1837-1851 (2000).
2. Reya, T. and Clevers, H. Wnt signalling in stem cells and cancer. *Nature* **434**, 834-850 (2005).
3. Clevers, H. Wnt/β-catenin signaling in development and disease. *Cell* **127**, 469-480 (2006).
4. Wang, S., Yin, J., Chen, D., *et al.* Small-molecule modulation of Wnt signaling *via* modulating the Axin-LRP5/6 interaction. *Nat. Chem. Biol.* **9**, 579-585 (2013).

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