



HLY78

Cat. No.:	OB0225WX-1722
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	HLY78 is a small molecule activator of the Wnt/β-catenin signaling pathway that specifically targets the DIX domain of Axin, thereby strengthening the Axin-LRP6 binding interaction.
Synonym	4-Ethyl-5-methyl-5,6-dihydro-[1,3]dioxolo[4,5-j]phenanthridine; 854847-61-3; HLY 78; 4-Ethyl-5-methyl-5,6-dihydro-[1,3]dioxolo[4,5-j]phenanthridine; ChEMBL223713 ; 4-ethyl-5-methyl-6H-[1,3]dioxolo[4,5-j]phenanthridine; 4-Ethyl-5-methyl-8,9-methylenedioxy-5,6-dihydrophenanthridine; HLY-78; 4-ethyl-5-methyl-6H,9H-[1,3]dioxolo[4,5-j]phenanthridine; 4-ethyl-5-methyl-8,9-methylenedioxy-5,6-dihydrophenanthridine; 4-ethyl-5-methyl-5H,6H,9H-[1,3]dioxolo[4,5-j]phenanthridine
CAS No.	854847-61-3
Compound CID	44422459
Formula	C ₁₇ H ₁₇ NO ₂
Formula Weight	267.32

Specification

Relative Density	1.208 g/cm ³
IUPAC Name	4-Ethyl-5-methyl-6H-[1,3]dioxolo[4,5-j]phenanthridine
InChI	InChI=1S/C17H17NO2/c1-3-11-5-4-6-13-14-8-16-15(19-10-20-16)7-12(14)9-18(2)17(11)13/h4-8H,3,9-10H2,1-2H3
InChI Key	FAZZYPIBZBGQSH-UHFFFAOYSA-N



SMILES string	<chem>CCC1=C2C(=CC=C1)C3=CC4=C(C=C3CN2C)OCO4</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	HLY78 is applied in developmental biology as an activator of the Wnt/beta-catenin pathway to investigate its role in tissue regeneration and cell fate determination through binding to the Axin-DAX domain.

Library Information

Target	Wnt/β-Catenin
Receptor	Wnt/β-Catenin
Pathways	Stem cells; Cytoskeletal signaling
Plate Number	AOCL-23
Plate Location	a7
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	50 mg/mL; 187.04 mM