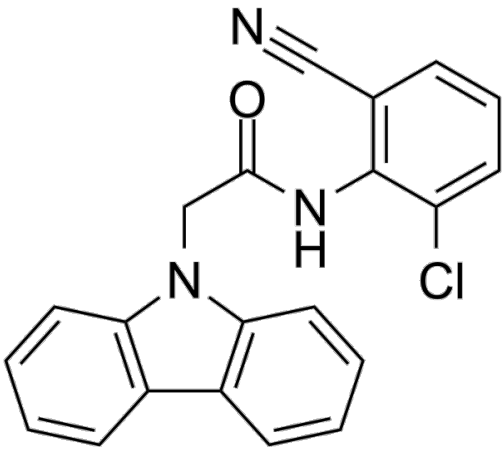
Product Data Sheet

Product Name: KL044
Cat. No.: GC63033

Chemical Properties

Cas. No.	1801856-93-8		
Formula	$C_{21}H_{14}ClN_3O$	M.Wt	359.81
Solubility	DMSO : 100 mg/mL (277.92 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

KL044, a stabilizer of the clock protein cryptochrome (CRY) , is a potent chemical probe with a pEC50 value of 7.32, leading to the extension of the circadian period and repression of Per2

Caution: Product has not been fully validated for medical applications. For research use only.
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activity[1].

KL044 (0-3.7 μM; 8 h) effectively stabilizes the CRY1-LUC fusion protein without affecting the stability of LUC in the HEK293 stable cell line[1].

[1]. Jae Wook Lee, et al. Development of Small-Molecule Cryptochrome Stabilizer Derivatives as Modulators of the Circadian Clock. ChemMedChem. 2015 Sep;10(9):1489-97.