

KL044

Chemical Properties

CAS No. : 1801856-93-8

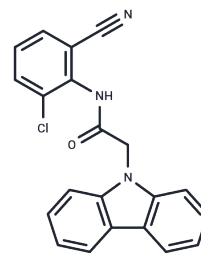
Formula: C₂₁H₁₄ClN₃O

Molecular Weight: 359.81

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	KL044 is a cryptochrome 1 (CRY1) activator that prolongs circadian rhythms and inhibits PER2 activity. KL044 inhibits melanogenesis by inhibiting the cAMP/PKA/CREB pathway.
Targets(IC50)	Others
In vitro	In cell-based degradation assays, KL044 (0-3.7 μM; 8 h) effectively stabilized the CRY1-LUC fusion protein without affecting LUC stability[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7792 mL	13.8962 mL	27.7924 mL
5 mM	0.5558 mL	2.7792 mL	5.5585 mL
10 mM	0.2779 mL	1.3896 mL	2.7792 mL
50 mM	0.0556 mL	0.2779 mL	0.5558 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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