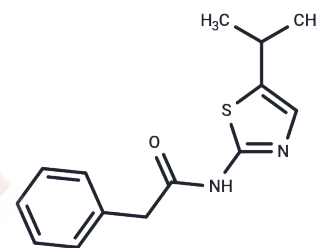


BML-259

Chemical Properties

CAS No. : 267654-00-2
 Formula: C₁₄H₁₆N₂O₂
 Molecular Weight: 260.35
 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	BML-259 is an inhibitor of CDK5 and CDK2 with IC ₅₀ s of 64 and 98 nM, respectively. BML-259 can be used in studies about the treatment of cancer and neurodegenerative diseases.
Targets(IC ₅₀)	CDK
In vitro	BML-259 prevents a large population of cells from NAC-evoked cell death[1].

Solubility Information

Solubility	DMSO:PBS (pH 7.2)(1:2): 0.3 mg/mL (1.15 mM),Sonication is recommended. DMF: 30 mg/mL (115.23 mM),Sonication is recommended. DMSO: 120 mg/mL (460.92 mM),Sonication is recommended. Ethanol: 0.25 mg/mL (0.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.841 mL	19.2049 mL	38.4098 mL
5 mM	0.7682 mL	3.841 mL	7.682 mL
10 mM	0.3841 mL	1.9205 mL	3.841 mL
50 mM	0.0768 mL	0.3841 mL	0.7682 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

Kaźmierczak A, et al. A novel mechanism of non-A β component of Alzheimer's disease amyloid (NAC) neurotoxicity. Interplay between p53 protein and cyclin-dependent kinase 5 (Cdk5). *Neurochem Int.* 2011;58(2): 206-214.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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