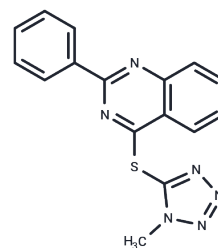


## Casein kinase 1δ-IN-4

## Chemical Properties

CAS No. :	851168-98-4
Formula:	C <sub>16</sub> H <sub>12</sub> N <sub>6</sub> S
Molecular Weight:	320.37
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Casein kinase 1δ-IN-4 is a potent and selective CK1δ inhibitor. It regulates circadian periodicity by modulating Per protein phosphorylation, used for sleep disorders and cancer research.
Targets(IC50)	Casein Kinase

## Solubility Information

Solubility	DMSO: 5 mg/mL (15.61 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	3.1214 mL	15.607 mL	31.2139 mL
5 mM	0.6243 mL	3.1214 mL	6.2428 mL
10 mM	0.3121 mL	1.5607 mL	3.1214 mL
50 mM	0.0624 mL	0.3121 mL	0.6243 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

Stoyanovsky DA, Jiang J, Murphy MP, Epperly M, Zhang X, Li S, Greenberger J, Kagan V, Bayir H. Design and Synthesis of a Mitochondria-Targeted Mimic of Glutathione Peroxidase, MitoEbselen-2, as a Radiation Mitigator. ACS Med Chem Lett. 2014 Nov 18;5(12):1304-1307. eCollection 2014 Dec 11. PubMed PMID: 25530831; PubMed Central PMCID: PMC4266336.

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