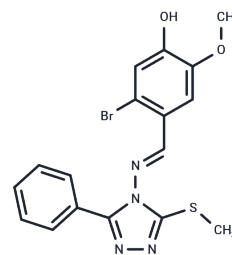


(E/Z)-GO289

Chemical Properties

CAS No. : 694522-87-7
 Formula: C₁₇H₁₅BrN₄O₂S
 Molecular Weight: 419.3
 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	(E/Z)-GO289, which strongly lengthened circadian period, is a potent and selective inhibitor of CK2. (E/Z)-GO289 exhibited cell type-dependent inhibition of cancer cell growth that correlated with cellular clock function. The discovery of (E/Z)-GO289 provides a direct link between the circadian clock and cancer regulation and reveals unique design principles underlying kinase selectivity.
Targets(IC50)	Casein Kinase

Solubility Information

Solubility	DMSO: 8.13 mg/mL (19.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.19 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3849 mL	11.9246 mL	23.8493 mL
5 mM	0.477 mL	2.3849 mL	4.7699 mL
10 mM	0.2385 mL	1.1925 mL	2.3849 mL
50 mM	0.0477 mL	0.2385 mL	0.477 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

Oshima T, et al. Cell-based screen identifies a new potent and highly selective CK2 inhibitor for modulation of circadian rhythms and cancer cell growth. Sci Adv. 2019;5(1):eaau9060. Published 2019 Jan 23.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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