Proteins

Product Data Sheet



(E/Z)-GO289

Cat. No.: HY-115519 CAS No.: 694522-87-7 Molecular Formula: $C_{17}H_{15}BrN_4O_2S$

Molecular Weight: 419.3

Target: Casein Kinase

Pathway: Cell Cycle/DNA Damage; Stem Cell/Wnt

Powder -20°C Storage: 3 years

In solvent

4°C 2 years -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 16.67 mg/mL (39.76 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3849 mL	11.9246 mL	23.8493 mL
	5 mM	0.4770 mL	2.3849 mL	4.7699 mL
	10 mM	0.2385 mL	1.1925 mL	2.3849 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.67 mg/mL (3.98 mM); Suspended solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (3.98 mM); Clear solution

BIOLOGICAL ACTIVITY

Description (E/Z)-GO289 is a potent and selective casein kinase 2 (CK2) inhibitor (IC₅₀=7 nM). (E/Z)-GO289 strongly lengthens circadian period. (E/Z)-GO289 exhibits cell type-dependent inhibition of cancer cell growth that correlated with cellular clock function

[1]

(E/Z)-GO289 is a potent and highly selective CK2 inhibitor for modulation of circadian rhythms and cancer cell growth.(E/Z)-In Vitro

GO289 shows an IC₅₀ of 13 μ M for PIM2 and is >1000 times higher than that for CK2^[1].

?(E/Z)-GO289 (3-9 μM; 2 days) strongly inhibits Caki-2, A498, and 769-P cells^[1].

?(E/Z)-GO289 enables manipulation of clock protein phosphorylation and cancer cell growth [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• bioRxiv. 2023 May 12.

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REFERENCES

[1]. 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.

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

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