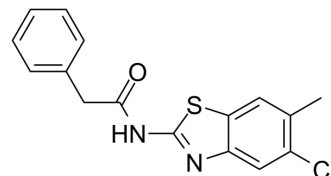


LH846

Cat. No.:	HY-15704		
CAS No.:	639052-78-1		
Molecular Formula:	C ₁₆ H ₁₃ ClN ₂ OS		
Molecular Weight:	316.81		
Target:	Casein Kinase		
Pathway:	Cell Cycle/DNA Damage; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 45 mg/mL (142.04 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.1565 mL	15.7823 mL	31.5647 mL
5 mM	0.6313 mL	3.1565 mL	6.3129 mL
10 mM	0.3156 mL	1.5782 mL	3.1565 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (7.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LH846 is a selective inhibitor of CKIδ, with an IC₅₀ of 290 nM, and less potently inhibits CKIα and CKIε, with IC₅₀s of 2.5 μM and 1.3 μM, respectively.

IC₅₀ & Target

CKIδ 290 nM (IC ₅₀)	CKIα 2.5 μM (IC ₅₀)
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In Vitro

LH846 is a potent inhibitor of CKIδ, with an IC₅₀ of 290 nM, less potently inhibits CKIα and CKIε, with IC₅₀s of 2.5 μM and 1.3 μM, respectively, and has no effect on CK2. LH846 (3 or 10 μM) inhibits CKIδ-dependent phosphorylation of PER1 in HEK293T cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Patent. US20180263995A1.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Lee JW, et al. A small molecule modulates circadian rhythms through phosphorylation of the period protein. *Angew Chem Int Ed Engl.* 2011 Nov 4;50(45):10608-11.

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

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