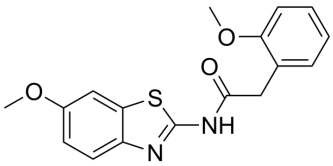
CK1-IN-3

Cat. No.:	HY-128433
CAS No.:	349438-74-0
Molecular Formula:	$C_{17}H_{16}N_2O_3S$
Molecular Weight:	328.39
Target:	Casein Kinase
Pathway:	Cell Cycle/DNA Damage; Stem Cell/Wnt
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (380.64 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.0452 mL	15.2258 mL	30.4516 mL
5 mM	0.6090 mL	3.0452 mL	6.0903 mL
10 mM	0.3045 mL	1.5226 mL	3.0452 mL

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

BIOLOGICAL ACTIVITY

Description

CK1-IN-3 (compound 51) is a AC1 inhibitor with an IC_{50}s 2.22 μM for CK-1δ[1][2].

IC_{50} & Target

CK1δ
2.22 μM (IC_{50})

In Vivo

CK1-IN-3 (compound 35) (100 nM; feed) significantly extendes fly lifespan to 36.17 days[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ana MARTÍNEZ GIL, et al. Substituted benzothiazoles and therapeutic uses thereof for the treatment of human diseases. WO2014114825A1.

[2]. Salado IG, et al. Protein kinase CK-1 inhibitors as new potential drugs for amyotrophic lateral sclerosis. J Med Chem. 2014 Mar 27;57(6):2755-72.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA