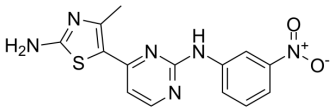
CK7

Cat. No.:	HY-103646
CAS No.:	507487-89-0
Molecular Formula:	$C_{14}H_{12}N_6O_2S$
Molecular Weight:	328.35
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (38.07 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.0455 mL	15.2277 mL	30.4553 mL
5 mM	0.6091 mL	3.0455 mL	6.0911 mL
10 mM	0.3046 mL	1.5228 mL	3.0455 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	CK7, a Cdk2/9 inhibitor, can be used for the synthesis of Nek1 inhibitor BSc5231 and BSc5367[1].	
IC_{50} & Target	CDK2	CDK9

REFERENCES

[1]. Pilakowski J, et al. Design, synthesis and biological evaluation of novel aminopyrazole- and 7-azaindole-based Nek1 inhibitors and their effects on zebrafish kidney development. Bioorg Med Chem Lett. 2021;53:128418.

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