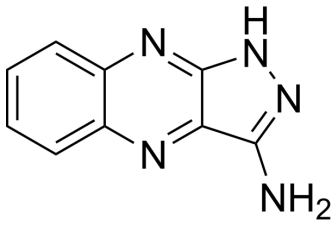
NSC693868

Cat. No.:	HY-103381
CAS No.:	40254-90-8
Molecular Formula:	$C_9H_7N_5$
Molecular Weight:	185.19
Target:	CDK; GSK-3
Pathway:	Cell Cycle/DNA Damage; PI3K/Akt/mTOR; Stem Cell/Wnt
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (27.00 mM; Need ultrasonic and warming)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	5.3999 mL	26.9993 mL	53.9986 mL
5 mM	1.0800 mL	5.3999 mL	10.7997 mL
10 mM	0.5400 mL	2.6999 mL	5.3999 mL

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

BIOLOGICAL ACTIVITY

Description

NSC693868 is a selective inhibitor of CDK1 and CDK5 with IC_{50}s of 600 nM and 400 nM, respectively. NSC693868 less potently inhibits GSK3β with an IC_{50} of 1 μM) and does not block CDC25 activity. NSC693868 is used to help define the roles of CDK1 and CDK5 in various signaling pathways[1].

IC_{50} & Target			
	Cdk1/cyclin B 600 nM (IC_{50})	Cdk5/p25 400 nM (IC_{50})	GSK-3β 1 μM (IC_{50})

REFERENCES

[1]. Ortega MA, et al. Pyrazolo[3,4-b]quinoxalines. A new class of cyclin-dependent kinases inhibitors. Bioorg Med Chem. 2002 Jul;10(7):2177-84.

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

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