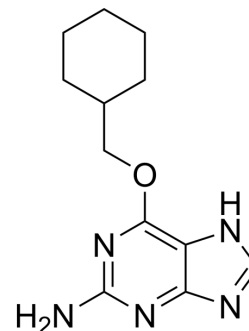


NU2058

Cat. No.:	HY-19316		
CAS No.:	161058-83-9		
Molecular Formula:	C ₁₂ H ₁₇ N ₅ O		
Molecular Weight:	247.3		
Target:	CDK		
Pathway:	Cell Cycle/DNA Damage		
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 : ≥ 32 mg/mL (129.40 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		4.0437 mL	20.2184 mL	40.4367 mL
	5 mM		0.8087 mL	4.0437 mL	8.0873 mL
	10 mM		0.4044 mL	2.0218 mL	4.0437 mL

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

BIOLOGICAL ACTIVITY

Description

NU2058 (O6-(Cyclohexylmethyl)guanine) is a potent, competitive and guanine-based CDK inhibitor with IC₅₀s of 17 μM and 26 μM for CDK2 and CDK1. NU2058 has anti-cancer activity.

IC₅₀ & Target

CDK1	CDK2	CDK2
26 μM (IC ₅₀)	17 μM (IC ₅₀)	12 μM (Ki)

In Vitro

NU2058 (O6-(Cyclohexylmethyl)guanine) is a competitive inhibitor of CDK2 with respect to ATP (Ki value CDK2, 12 μM) that binds in the ATP binding pocket in a different orientation from other purine-based inhibitors, including olomoucine and roscovitine. NU2058 is the lead compound in a structure-based drug discovery program to develop more potent and selective CDK inhibitors.

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

REFERENCES

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

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