CDK2

MedChemExpress

Cat. No.:	HY-P0235
CAS No.:	255064-79-0
Molecular Formula:	C ₃₅ H ₅₇ N ₁₅ O ₉
Molecular Weight:	831.92
Sequence:	His-His-Ala-Ser-Pro-Arg-Lys
Sequence Shortening:	HHASPRK
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

BIOLOGICAL ACTIVITY		
BIOLOGICAL ACTIVITY		
Description	CDK2 is a member of the eukaryotic S/T protein kinase family and its function is to catalyze the phosphoryl transfer of ATP γ- phosphate to serine or threonine hydroxyl (denoted as S ₀ /T ₀) in a protein substrate.	
In Vitro	CDK2 (Cyclin-dependent kinase 2) is a member of the eukaryotic S/T protein kinase family and its function is to catalyze the phosphoryl transfer of ATP γ-phosphate to serine or threonine hydroxyl (denoted as S ₀ /T ₀) in a protein substrate. The fully active CDK2 is in complex with HHASPRK (an optimal peptide substrate), namely interactions of CDK2 with peptide substrate and the dynamics of the G-loop. CDK2 participates in eukaryotic cell cycle regulation at the G1/S boundary. CDK2 deregulation has been proved to occur in tumor cells, evoking a strong interest in artificial and native inhibitors. CDK2 activity is tightly regulated by a complex mechanism, including a positive regulatory subunit binding, and phosphorylations at positive and/or negative regulatory sites ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Bártová I, The mechanism of inhibition of the cyclin-dependent kinase-2 as revealed by the molecular dynamics study on the complex CDK2 with the peptide substrate HHASPRK. Protein Sci. 2005 Feb;14(2):445-51.

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

Tel: 609-228-6898Fax: 609-228-5909E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Product Data Sheet