



Product Information

CDK inhibitor Dinaciclib, Purity $\geq 98\%$

Cat. No.: X24-05-ZQ730

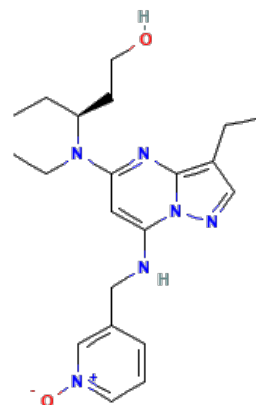
Size: 5 mg; 10 mg; 25 mg; 50 mg

CAS Number: 779353-01-4

Compound CID: 46926350

Synonym: 779353-01-4; SCH727965; SCH-727965; SCH 727965; CDK inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Dinaciclib, soluble in warmed DMSO and warmed ethanol and insoluble in water, is an CDK kinase inhibitor that disrupts cell division processes. It targets CDK1, CDK2, CDK5, and CDK9.
Molecular Weight	396.5
Molecular Formula	C ₂₁ H ₂₈ N ₆ O ₂
Targets	CDK1: 3 nM; CDK2: 1 nM; CDK5: 1 nM; CDK9: 4 nM
IUPAC Name	2-[(2S)-1-[3-ethyl-7-[(1-oxidopyridin-1-ium-3-yl)methylamino]pyrazolo[1,5-a]pyrimidin-5-yl]piperidin-2-yl]ethanol
InChI	InChI=1S/C21H28N6O2/c1-2-17-14-23-27-19(22-13-16-6-5-9-25(29)15-16)12-20(24-21(17)27)26-10-4-3-7-18(26)8-11-28/h5-6,9,12,14-15,18,22,28H,2-4,7-8,10-11,13H2,1H3/t18-m/s1
InChI Key	PIMQWRZWLQKKBJSFHVURJKSA-N
Canonical SMILES	CCC1=C2N=C(C=C(N2N=C1)NCC3=C[N+](=CC=C3)[O-])N4CCCCC4CCO
Isomeric SMILES	CCC1=C2N=C(C=C(N2N=C1)NCC3=C[N+](=CC=C3)[O-])N4CCCC[C@H]4CCO
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	Warmed DMSO: 22 mg/mL (55.48 mM); Water: Insoluble; Warmed ethanol: 7 mg/mL (17.65 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Dinaciclib can be used to study its selective inhibition of CDK1, CDK2, CDK5, and CDK9, and its impact on cancer cell proliferation.



Storage

Store at -20°C.
