



Product Information

CDK inhibitor NG52, Purity $\geq 98\%$

Cat. No.: X24-05-ZQ743

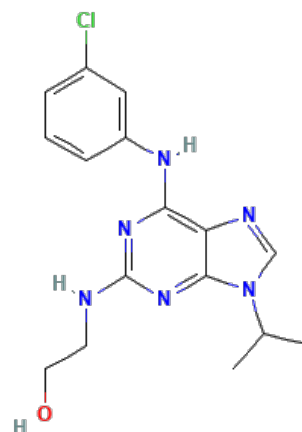
Size: 5 mg; 10 mg; 25 mg

CAS Number: 212779-48-1

Compound CID: 2856

Synonym: 212779-48-1; Compound 52; NG-52; NG 52; CDK inhibitor

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



Product Information

Description	NG52, soluble in DMSO and ethanol and insoluble in water, is an CDK kinase inhibitor that disrupts cell division processes. It targets cdc2-cyclin B, Cdc28p, Pho85p, and phosphoglycerate kinase 1 (PGK1).
Molecular Weight	346.81
Molecular Formula	C ₁₆ H ₁₉ ClN ₆ O
Targets	cdc2-cyclin B: 0.34 μ M; Cdc28p: 7 μ M; Pho85p: 2 nM; Phosphoglycerate kinase 1 (PGK1): 2.5 μ M
IUPAC Name	2-[[6-(3-Chloroanilino)-9-propan-2-ylpurin-2-yl]amino]ethanol
InChI	InChI=1S/C16H19ClN6O/c1-10(2)23-9-19-13-14(20-12-5-3-4-11(17)8-12)21-16(18-6-7-24)22-15(13)23/h3-5,8-10,24H,6-7H2,1-2H3,(H2,18,20,21,22)
InChI Key	XZEFMZCNXDQXOZ-UHFFFAOYSA-N
Canonical SMILES	CC(C)N1C=NC2=C(N=C(N=C21)NCCO)NC3=CC(=CC=C3)Cl
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 59 mg/mL (170.12 mM); Water: Insoluble; Ethanol: 20 mg/mL (57.66 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	NG52 can be utilized in research focusing on the modulation of signal transduction pathways.
Storage	Store at -20°C.