



Product Information

CDK inhibitor MC180295, Purity ≥98%

Cat. No.: X24-05-ZQ797

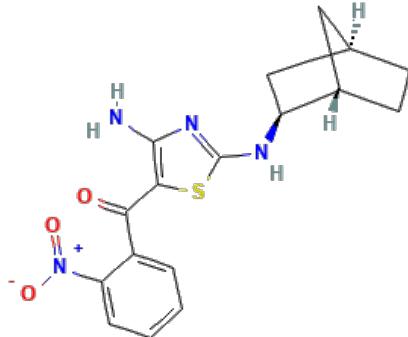
Size: 1 mg; 5 mg; 10 mg; 50 mg

CAS Number: 2237942-08-2

Compound CID: 137333456

Synonym: 2237942-08-2; MC180295; MC-180295; MC 180295; CDK inhibitor

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



Product Information

Description	MC180295, soluble in DMSO and water and insoluble in ethanol, is an CDK kinase inhibitor that disrupts cell division processes. It targets CDK1-Cyclin B, cdk2-cyclin A, cdk2-cyclin E, and CDK3-Cyclin E.
Molecular Weight	358.41
Molecular Formula	C ₁₇ H ₁₈ N ₄ O ₃ S
Targets	CDK1-Cyclin B: 138 nM; cdk2-cyclin A: 233 nM; cdk2-cyclin E: 367 nM; CDK3-Cyclin E: 399 nM
IUPAC Name	[4-Amino-2-[(1S,2S,4R)-2-bicyclo[2.2.1]heptanyl]amino]-1,3-thiazol-5-yl]-(2-nitrophenyl)methanone
InChI	InChI=1S/C17H18N4O3S/c18-16-15(14(22)11-3-1-2-4-13(11)21(23)24)25-17(20-16)19-12-8-9-5-6-10(12)7-9/h1-4,9-10,12H,5-8,18H2,(H,19,20)/t9-,10+,12+/m1/s1
InChI Key	JRNXAQINDCOHGS-SCVCMEIPSA-N
Canonical SMILES	C1CC2CC1CC2NC3=NC(=C(S3)C(=O)C4=CC=CC=C4[N+](=O)[O-])N
Isomeric SMILES	C1C[C@H]2C[C@@H]1C[C@@H]2NC3=NC(=C(S3)C(=O)C4=CC=CC=C4[N+](=O)[O-])N
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 64 mg/mL (178.56 mM); Water: 64 mg/mL (178.56 mM); Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	MC180295 can be used to investigate its role as a selective CDK9 inhibitor affecting transcription regulation.



Storage

Store at -20°C.
