



Product Information

CDK inhibitor R547, Purity ≥98%

Cat. No.: X24-05-ZQ734

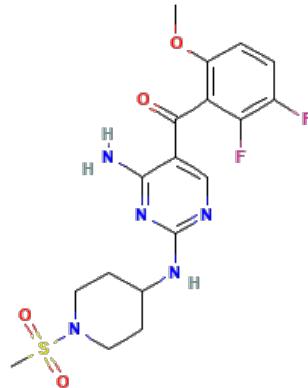
Size: 5 mg; 25 mg; 50 mg; 100 mg

CAS Number: 741713-40-6

Compound CID: 6918852

Synonym: 741713-40-6; R-547; CDK inhibitor

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



Product Information

Description	R547, soluble in DMSO and insoluble in ethanol and water, is an CDK kinase inhibitor that disrupts cell division processes. It targets CDK1/CyclinB, CDK2/CyclinE, AuroraA, and CDK4/CyclinD1.
Molecular Weight	441.45
Molecular Formula	C ₁₈ H ₂₁ F ₂ N ₅ O ₄ S
Targets	CDK1/CyclinB: 2 nM (Ki); CDK2/CyclinE: 3 nM (Ki); AuroraA: >5 μM (Ki); CDK4/CyclinD1: 1 nM (Ki)
IUPAC Name	[4-Amino-2-[(1-methylsulfonylpiperidin-4-yl)amino]pyrimidin-5-yl]-(2,3-difluoro-6-methoxyphenyl)met hanone
InChI	InChI=1S/C18H21F2N5O4S/c1-29-13-4-3-12(19)15(20)14(13)16(26)11-9-22-18(24-17(11)21)23-10-5-7-25(8-6-10)30(2,27)28/h3-4,9-10H,5-8H2,1-2H3,(H3,21,22,23,24)
InChI Key	JRNJNYBQQYBCLE-UHFFFAOYSA-N
Canonical SMILES	COc1=C(C(=C(C=C1)F)F)C(=O)C2=CN=C(N=C2N)NC3CCN(CC3)S(=O)(=O)C
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 56 mg/mL (126.85 mM); Water: Insoluble; 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	R547 can be employed to study its inhibition of CDKs and its anticancer effects in preclinical models.
Storage	Store at -20°C.