



## Product Information

### CDK inhibitor R547, Purity $\geq 98\%$

**Cat. No.:** X24-05-ZQ734

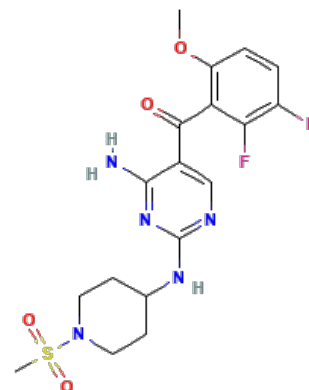
**Size:** 5 mg; 25 mg; 50 mg; 100 mg

**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

<b>Description</b>	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.
<b>Molecular Weight</b>	441.45
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>21</sub> F <sub>2</sub> N <sub>5</sub> O <sub>4</sub> S
<b>Targets</b>	CDK1/CyclinB: 2 nM (Ki); CDK2/CyclinE: 3 nM (Ki); AuroraA: >5 $\mu$ M (Ki); CDK4/CyclinD1: 1 nM (Ki)
<b>IUPAC Name</b>	[4-Amino-2-[(1-methylsulfonyl)piperidin-4-yl]amino]pyrimidin-5-yl)-(2,3-difluoro-6-methoxyphenyl)methanone
<b>InChI</b>	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)
<b>InChI Key</b>	JRNJNYBQQYBCLE-UHFFFAOYSA-N
<b>Canonical SMILES</b>	<chem>COC1=C(C(=C(C=C1)F)F)C(=O)C2=CN=C(N=C2N)NC3CCN(CC3)S(=O)(=O)C</chem>
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	DMSO: 56 mg/mL (126.85 mM); Water: Insoluble; Ethanol: Insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Applications</b>	R547 can be employed to study its inhibition of CDKs and its anticancer effects in preclinical models.
<b>Storage</b>	Store at -20°C.