



Product Information

CDK inhibitor AZD5438, Purity ≥98%

Cat. No.: X24-05-ZQ729

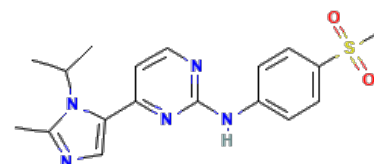
Size: 10 mg; 50 mg; 100 mg; 200 mg

CAS Number: 602306-29-6

Compound CID: 16747683

Synonym: 602306-29-6; AZD-5438; CDK inhibitor

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



Product Information

Description	AZD5438, soluble in DMSO and ethanol and insoluble in water, is an CDK kinase inhibitor that disrupts cell division processes. It targets CDK1-cyclin B1, cdk2-cyclin A, cdk2-cyclin E, and cdk4-cyclin D1.
Molecular Weight	371.5
Molecular Formula	C ₁₈ H ₂₁ N ₅ O ₂ S
Targets	CDK1-cyclin B1: 16 nM; cdk2-cyclin A: 45 nM; cdk2-cyclin E: 6 nM; cdk4-cyclin D1: 449 nM
IUPAC Name	4-(2-Methyl-3-propan-2-ylimidazol-4-yl)-N-(4-methylsulfonylphenyl)pyrimidin-2-amine
InChI	InChI=1S/C18H21N5O2S/c1-12(2)23-13(3)20-11-17(23)16-9-10-19-18(22-16)21-14-5-7-15(8-6-14)26(4,24)25/h5-12H,1-4H3,(H,19,21,22)
InChI Key	WJRRGYBTGDJBFX-UHFFFAOYSA-N
Canonical SMILES	CC1=NC=C(N1C(C)C)C2=NC(=NC=C2)NC3=CC=C(C=C3)S(=O)(=O)C
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 68 mg/mL (183.06 mM); Water: Insoluble; Ethanol: 68 mg/mL (183.06 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	AZD5438 is employed to investigate its inhibition of multiple CDKs and its implications for cancer therapy.
Storage	Store at -20°C.



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