

## Product Information

### CDK inhibitor BI6727, Purity $\geq 98\%$

**Cat. No.:** X24-05-ZQ689

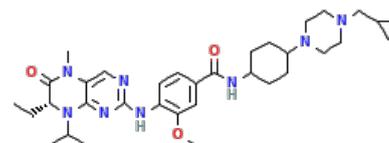
**Size:** 5 mg; 10 mg; 50 mg; 100 mg

**CAS Number:** 755038-65-4

**Compound CID:** 10461508

**Synonym:** 755038-65-4; Volasertib; BI-6727; CDK inhibitor

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



#### Product Information

<b>Description</b>	BI6727, soluble in warmed DMSO and insoluble in water and ethanol, is an CDK kinase inhibitor that disrupts cell division processes. It targets PLK1.
<b>Molecular Weight</b>	618.8
<b>Molecular Formula</b>	C <sub>34</sub> H <sub>50</sub> N <sub>8</sub> O <sub>3</sub>
<b>Targets</b>	PLK1: 0.87 nM
<b>IUPAC Name</b>	<i>N</i> -[4-[4-(cyclopropylmethyl)piperazin-1-yl]cyclohexyl]-4-[[[(7 <i>R</i> )-7-ethyl-5-methyl-6-oxo-8-propan-2-yl-7 <i>H</i> -pteridin-2-yl]amino]-3-methoxybenzamide
<b>InChI</b>	InChI=1S/C34H50N8O3/c1-6-28-33(44)39(4)29-20-35-34(38-31(29)42(28)22(2)3)37-27-14-9-24(19-30(27)45-5)32(43)36-25-10-12-26(13-11-25)41-17-15-40(16-18-41)21-23-7-8-23/h9,14,19-20,22-23,25-26,28H,6-8,10-13,15-18,21H2,1-5H3,(H,36,43)(H,35,37,38)/t25?,26?,28-/m1/s1
<b>InChI Key</b>	SXNJFOWDRLKDSF-XKHVUIRMSA-N
<b>Canonical SMILES</b>	CCC1C(=O)N(C2=CN=C(N=C2N1C(C)C)NC3=C(C=C(C=C3)C(=O)NC4CCC(CC4)N5CCN(CC5)C6CC6)OC)C
<b>Isomeric SMILES</b>	CC[C@@H]1C(=O)N(C2=CN=C(N=C2N1C(C)C)NC3=C(C=C(C=C3)C(=O)NC4CCC(CC4)N5CCN(CC5)CC6CC6)OC)C
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	Warmed DMSO: 19 mg/mL (30.7 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.

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**Applications**

BI6727 can be used to investigate its role as a potent PIK1 inhibitor in cancer research.

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**Storage**

Store at -20°C.

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