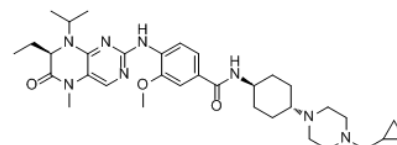


Product Name : Volasertib
Cat. No. : PC-42899
CAS No. : 755038-65-4
Molecular Formula : C₃₄H₅₀N₈O₃
Molecular Weight : 618.8126
Target : Polo-like Kinase (PLK)
Solubility : 10 mM in DMSO



Biological Activity

Volasertib (BI 6727) is a potent, selective **Polo-like kinase (PLK)** inhibitor with IC₅₀ of 0.87, 5 and 56 nM for PLK1, 2 and 3, respectively.

Volasertib (BI 6727) displays no inhibitory activity against a panel of >50 other kinases.

Volasertib (BI 6727) inhibits proliferation of multiple cell lines derived from various cancer tissues, including HCT116 (EC₅₀=23 nM) and NCI-H460 (EC₅₀=21 nM), BRO (EC₅₀=11 nM), and hematopoietic cancer cell HL-60 (EC₅₀=32 nM). Volasertib (BI 6727) demonstrates marked antitumor activity in multiple cancer models, including a model of taxane-resistant colorectal cancer.

References

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Grinshtein N, et al. *Cancer Res.* 2011 Feb 15;71(4):1385-95.
Schöffski P, et al. *Eur J Cancer.* 2012 Jan;48(2):179-86.
Sanhaji M, et al. *Cell Cycle.* 2012 Feb 1;11(3):543-53.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com