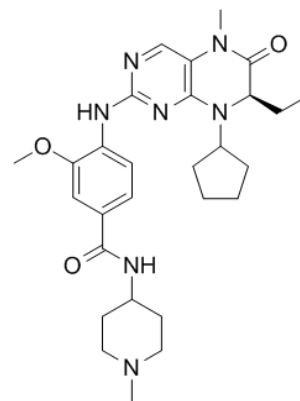


Product Name : BI-2536
Cat. No. : PC-45847
CAS No. : 755038-02-9
Molecular Formula : C₂₈H₃₉N₇O₃
Molecular Weight : 521.6544
Target : Polo-like Kinase (PLK)
Solubility : 10 mM in DMSO



Biological Activity

BI-2536 is a potent and selective inhibitor of **PLK1** with IC₅₀ of 0.83 nM.

BI-2536 also weakly inhibits the activities of PLK2 and PLK3 (IC₅₀=3.5 nM and 9.0 nM, respectively), displays >1,000-fold selectivity to a panel of 63 other protein kinases.

BI-2536 causes a mitotic arrest and induces apoptosis in human cancer cell lines, inhibits growth of human tumor xenografts in nude mice and induces regression of large tumors with well-tolerated intravenous dose regimens.

BI-2536 also inhibits **BRD4** with IC₅₀ of 25 nM.

References

Steedmaier M, et al. *Curr Biol*. 2007 Feb 20;17(4):316-22. Epub 2007 Feb 8.

Chen L, et al. *ACS Med Chem Lett*. 2015 May 18;6(7):764-9.

Nappi TC, et al. *Cancer Res*. 2009 Mar 1;69(5):1916-23.

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

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