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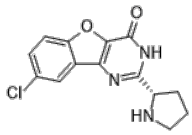
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	XL413
Cat. No.	:	PC-27231
CAS No.	:	1169558-38-6
Molecular Formula	:	$C_{14}H_{12}ClN_3O_2$
Molecular Weight	:	289.72
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	10 mM in DMSO



Biological Activity

XL413 (BMS-863233) is a potent, selective, ATP competitive serine/threonine kinase CDC7 inhibitor with IC50 of 3.4 nM.
XL413 weakly inhibits CK2, PIM1 with IC50 of 215, 42 nM respectively.
XL413 inhibits the cell proliferation (IC50=2685 nM), decreases cell viability (IC50=2142 nM) and elicits the caspase 3/7 activity (EC50=2288 nM) in Colo-205 cells.
XL413 also significantly inhibits the anchorage-independent growth of colo-205 in soft agar (IC50=715 nM).
XL413 shows cytotoxic effects on tumors, with IC50 of 22.9 μM in HCC1954 cells and 1.1 μM in Colo-205 cells.
XL413 demonstrate in vitro CDC7 dependent cell cycle arrest and in vivo tumor growth inhibition in a Colo-205 xenograft model.

References

Koltun ES, et al. Bioorg Med Chem Lett. 2012 Jun 1;22(11):3727-31.

Sasi NK, et al. PLoS One. 2014 Nov 20;9(11):e113300.

Jin SF, et al. Exp Cell Res. 2015 Dec 10;339(2):289-99.

E-mail: tech@probechem.com