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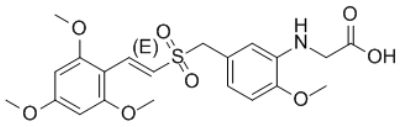
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Rigosertib
Cat. No.	:	PC-42852
CAS No.	:	592542-59-1
Molecular Formula	:	$C_{21}H_{25}NO_8S$
Molecular Weight	:	451.4901
Target	:	Polo-like Kinase (PLK)
Solubility	:	10 mM in DMSO



Biological Activity

Rigosertib (ON 01910) is a potent, non-ATP-competitive **PLK1** inhibitor (IC50=9-10 nM), selectively induces mitotic G2/M arrest and apoptosis in cancer cells.
Rigosertib (ON 01910) also exhibits inhibitory activity against PDGFR, Abl, and Flt-1, at higher concentrations, inhibits CDK1, Plk2, Src, and Fyn.
Rigosertib (ON 01910) demonstrates in vitro cytotoxicity against DU145 and K562 cells with IC50 of 100 and 15 nM.
Rigosertib (ON 01910) potently inhibits tumor growth in a variety of xenograft nude mouse models, does not exhibit hematotoxicity, liver damage, or neurotoxicity shows strong synergy with several chemotherapeutic agents.

References

Reddy MV, et al. ***J Med Chem***. 2011 Sep 22;54(18):6254-76.

Gumireddy K, et al. ***Cancer Cell***. 2005 Mar;7(3):275-86.

Oussenko IA, et al. ***Cancer Res.*** 2011 Jul 15;71(14):4968-76.

Chun AW, et al. ***Cancer Chemother Pharmacol***. 2009 Dec;65(1):177-86.

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

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