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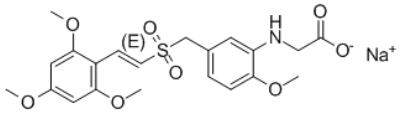
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Rigosertib sodium
Cat. No.	:	PC-42851
CAS No.	:	592542-60-4
Molecular Formula	:	$C_{21}H_{24}NNaO_8S$
Molecular Weight	:	473.4719
Target	:	Polo-like Kinase (PLK)
Solubility	:	H2O: ≥ 52 mg/mL



Biological Activity

Rigosertib sodium (ON 01910.Na) is a potent, non-ATP-competitive **PLK1** inhibitor (IC50=9-10 nM), selectively induces mitotic G2/M arrest and apoptosis in cancer cells.
Rigosertib also exhibits inhibitory activity against PDGFR, Abl, and Flt-1, at higher concentrations, inhibits CDK1, Plk2, Src, and Fyn.
Rigosertib demonstrates in vitro cytotoxicity against DU145 and K562 cells with IC50 of 100 and 15 nM.
Rigosertib 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

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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.

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