Product Data Sheet

Product Name: SNS-314
Cat. No.: GC25940

Chemical Properties

Cas. No.	1057249-41-8		
Formula	C18H15ClN6OS2	M.Wt	430.93
Solubility	DMSO: 100 mg/mL (232.06 mM);Water: Insoluble;Ethanol: Insoluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	SNS-314		

Background

SNS-314 is a potent and selective inhibitor of Aurora A, Aurora B and Aurora C with IC50 of 9 nM, 31 nM, and 3 nM, respectively. It is less potent to Trk A/B, Flt4, Fms, Axl, c-Raf and DDR2. Phase 1.

In HCT116 colorectal carcinoma cell line, with intact or depleted p53 protein levels, SNS-314 Mesylate shows enhanced efficacy when administered sequentially with other standard chemotherapeutic agents and the most profound synergies are identified for agents that activate the spindle assembly checkpoint, e.g., docetaxel and vincristine. [2] A recent study shows that SNS-314 Mesylate shows potent antiproliferative activity in HCT116 cells and inhibits soft agar colony formation. [3]

The sequential treatment with SNS-314 Mesylate followed by docetaxel 24 hours later produces a significant 72.5% tumor growth inhibition of HCT116 xenografts, while docetaxel and SNS-314 Mesylate as single agents produce no significant inhibition of HCT116 tumor growth. [2] In the HCT116 human colon cancer xenograft model, administration of 50 and 100 mg/kg SNS-314 Mesylate results a dose-dependent inhibition of histone H3 phosphorylation, indicating effective Aurora-B inhibition in vivo. In addition, HCT116 tumors from animals treated with SNS-314 Mesylate exhibits potent

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

and sustained responses including reduction of phosphorylated histone H3 levels, increased caspase-3 and appearance of increased nuclear size. [3]

[1] Oslob JD, et al. Bioorg Med Chem Lett, 2008, 18(17), 4880-4884. [2] VanderPorten EC, et al. Mol Cancer Ther, 2009, 8(4), 930-939. [3] Arbitrario JP, et al. Cancer Chemother Pharmacol, 2010, 65(4), 707-717.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA