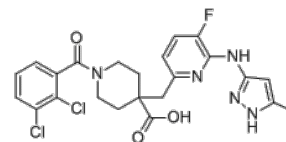


Product Name : TAS-119
Cat. No. : PC-72439
CAS No. : 1453099-83-6
Molecular Formula : C₂₃H₂₂Cl₂FN₅O₃
Molecular Weight : 506.359
Target : Aurora Kinase
Solubility : 10 mM in DMSO



Biological Activity

TAS-119 (TAS119) is a potent, selective, orally active inhibitor of **Aurora A** with IC₅₀ of 1 nM.

TAS-119 displayed high target selectivity among 301 protein kinases, including Aurora B (IC₅₀=95 nM) and Aurora C (IC₅₀=35 nM).

TAS-119 dose dependently enhanced cell growth inhibition by paclitaxel, docetaxel, and cabazitaxel, also potentiated another microtubule stabilizer Etoposide.

TAS-119 enhanced the antiproliferative effect of paclitaxel in different cell lines, including paclitaxel-resistant cells.

TAS-119 did neither induce mitosis and nor enhance the antiproliferative effect of paclitaxel in normal lung fibroblast cells.

TAS-119 enhanced the antitumor efficacy of paclitaxel and docetaxel in a nude mice NCI-H460 xenograft model, did not exaggerate paclitaxel-induced neutropenia and neurotoxicity.

References

Sootome H, et al. *Mol Cancer Ther.* 2020 Oct;19(10):1981-1991.

Robbrecht DGJ, et al. *Br J Cancer.* 2021 Jan;124(2):391-398.

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

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