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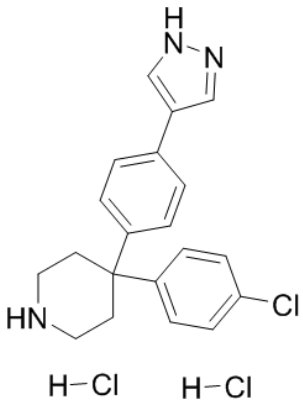
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AT7867 dihydrochloride
Cat. No.	:	PC-42874
CAS No.	:	1431697-86-7
Molecular Formula	:	$C_{20}H_{22}Cl_3N_3$
Molecular Weight	:	410.7678
Target	:	Akt
Solubility	:	10 mM in DMSO



Biological Activity

AT7867 dihydrochloride is a potent, ATP-competitive, orally available dual **Akt** and **p70S6K** inhibitor with Ki of 17-85 nM, also inhibits PKA with Ki of 20 nM.
AT7867 potently inhibits both AKT and p70S6K activity at the cellular level, as measured by inhibition of GSK3beta (IC50=7.1 uM, pSer9 GSK3β in U87MG glioblastoma cells) and S6 ribosomal protein phosphorylation, causes growth inhibition in a range of human cancer cell lines.
AT7867 inhibits AKT and p70S6K and induces apoptosis, inhibits human tumor growth in PTEN-deficient xenograft models.

References

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Zhang Q, et al. ***Oncotarget.*** 2016 Jul 19;7(29):46127-46141.

Zhang S, et al. ***PLoS One.*** 2017 Jan 12;12(1):e0169585.

Kimura A, et al. ***Stem Cell Res.*** 2017 Oct;24:61-68.

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