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Data Sheet

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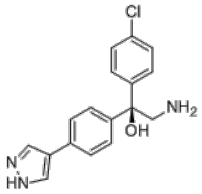
Product Name	:	AT13148
Cat. No.	:	PC-20556
CAS No.	:	1056901-62-2
Molecular Formula	:	$C_{17}H_{16}ClN_3O$
Molecular Weight	:	313.79
Target	:	Akt
Solubility	:	10 mM in DMSO



CAS: 1056901-62-2

Biological Activity

AT13148 (AT 13148) is a potent, ATP-competitive and orally active multi-AGC kinase inhibitor with IC50 vaules of 38 nM/402 nM/50 nM, 8 nM, 3 nM, and 6 nM/4 nM for Akt1/2/3, p70S6K, PKA, and ROCKI/II, respectively.
AT13148 potently inhibits proliferation with GI50 values of 1.5 to 3.8 μM across a selected panel of cancer cell lines.
AT13148 dramatically suppresses activation of multiple AGC kinases, including Akt (at p-Thr-308), p70S6 kinase (p70S6K), glycogen synthase kinase 3β (GSK-3β) and p90 ribosomal S6 kinase (RSK) in gastric cancer cells.
AT13148 (40 and 50 mg/kg p.o.) inhibits phosphorylation of the AKT substrates GSK3β, tuberin, and the p70S6K target S6RP are also observed in PTEN-deficient MES-SA human uterine tumor xenografts.
AT13148 significantly inhibits HGC27 xenograft tumor growth in nude mice.

References

Yap TA, et al. Clin Cancer Res. 2012 Jul 15;18(14):3912-23.

Xi Y, et al. Biochem Biophys Res Commun. 2016 Sep 9;478(1):330-6.

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