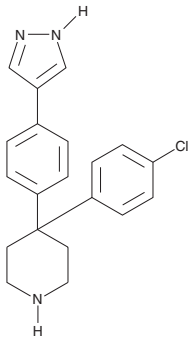
PRODUCT INFORMATION

AT7867

Item No. 16848



CAS Registry No.:	857531-00-1
Formal Name:	4-(4-chlorophenyl)-4-[4-(1H-pyrazol-4-yl)phenyl]-piperidine
MF:	$C_{20}H_{20}ClN_3$
FW:	337.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 258 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AT7867 is supplied as a crystalline solid. A stock solution may be made by dissolving the AT7867 in the solvent of choice, which should be purged with an inert gas. AT7867 is soluble in the organic solvent DMSO at a concentration of approximately 0.33 mg/ml.

Description

AT7867 is a potent and orally bioavailable inhibitor of Akt isoforms Akt1, 2, and 3 (IC_{50}s = 32, 17, and 47 nM, respectively).[1] It also inhibits p70S6 kinase and PKA (IC_{50}s = 85 and 20 nM, respectively), but is without effect against a panel of other kinases.[1] AT7867 inhibits growth and induces apoptosis in a variety of cancer cell lines *in vitro* and suppresses tumor growth of PTEN-deficient xenografts in mice.[1]

Reference

1. Grimshaw, K.M., Hunter, L.-J.K., Yap, T.A., *et al.* AT7867 is a potent and oral inhibitor of AKT and p70S6 kinase that induces pharmacodynamic changes and inhibits human tumor xenograft growth. *Mol. Cancer Ther.* **9(5)**, 1100-1110 (2010).

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