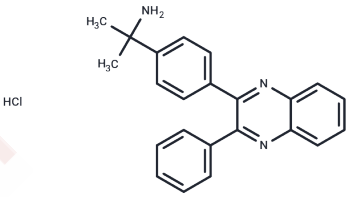
Data Sheet (Cat.No.T23695)

TargetMol

Akt-I-1,2

Chemical Properties



CAS No. : 473382-50-2

Formula: C23H22ClN3

Molecular Weight: 375.89

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Akt-I-1,2 is a selective inhibitor of Akt1 and Akt2.
Targets(IC50)	Akt

Solubility Information

Solubility	DMSO: 5 mg/mL (13.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6604 mL	13.3018 mL	26.6035 mL
5 mM	0.5321 mL	2.6604 mL	5.3207 mL
10 mM	0.266 mL	1.3302 mL	2.6604 mL
50 mM	0.0532 mL	0.266 mL	0.5321 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yamaji M, Ota A, Wahiduzzaman M, Karnan S, Hyodo T, Konishi H, Tsuzuki S, Hosokawa Y, Haniuda M. Novel ATP-competitive Akt inhibitor afuresertib suppresses the proliferation of malignant pleural mesothelioma cells. Cancer Med. 2017 Nov;6(11):2646-2659. doi: 10.1002/cam4.1179. Epub 2017 Sep 27. PubMed PMID: 28960945; PubMed Central PMCID: PMC5673922.

Liebl D, Qi X, Zhe Y, Barnett TC, Teasdale RD. SopB-Mediated Recruitment of SNX18 Facilitates Salmonella Typhimurium Internalization by the Host Cell. Front Cell Infect Microbiol. 2017 Jun 15;7:257. doi: 10.3389/fcimb.2017.00257. eCollection 2017. PubMed PMID: 28664153; PubMed Central PMCID: PMC5471308.

Zhang Q, Yang M, Qu Z, Zhou J, Jiang Q. Autophagy prevention sensitizes AKTi-1/2-induced anti-hepatocellular carcinoma cell activity in vitro and in vivo. Biochem Biophys Res Commun. 2016 Nov 18;480(3):334-340. doi: 10.1016/j.bbrc.2016.10.043. Epub 2016 Oct 15. PubMed PMID: 27756618.

Zhao QW, Zhou YW, Li WX, Kang B, Zhang XQ, Yang Y, Cheng J, Yin SY, Tong Y, He JQ, Yao HP, Zheng M, Wang YJ. Akt mediated phosphorylation of Oct4 is associated with the proliferation of stem like cancer cells. Oncol Rep. 2015 Apr;33(4):1621-9. doi: 10.3892/or.2015.3752. Epub 2015 Jan 27. PubMed PMID: 25625591; PubMed Central PMCID: PMC4358081.