

AKT-I-1

## Chemical Properties

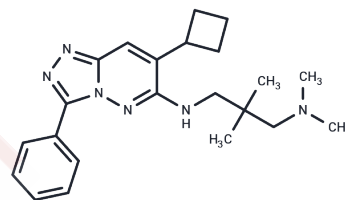
CAS No. : 473382-39-7

Formula: C<sub>22</sub>H<sub>30</sub>N<sub>6</sub>

Molecular Weight: 378.51

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 is a selective and reversible inhibitor of Akt1.
Targets(IC50)	Akt

## Solubility Information

Solubility	DMSO: 1.43 mg/mL (3.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6419 mL	13.2097 mL	26.4194 mL
5 mM	0.5284 mL	2.6419 mL	5.2839 mL
10 mM	0.2642 mL	1.321 mL	2.6419 mL
50 mM	0.0528 mL	0.2642 mL	0.5284 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

- Zhang Q, et al. 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.
- Zhao QW, et al. Akt mediated phosphorylation of Oct4 is associated with the proliferation of stem like cancer cells. *Oncol Rep.* 2015 Apr;33(4):1621-9.
- Yamaji M, et al. Novel ATP-competitive Akt inhibitor afuresertib suppresses the proliferation of malignant pleural mesothelioma cells. *Cancer Med.* 2017 Nov;6(11):2646-2659.
- Liebl D, et al. SopB-Mediated Recruitment of SNX18 Facilitates Salmonella Typhimurium Internalization by the Host Cell. *Front Cell Infect Microbiol.* 2017 Jun 15;7:257.

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