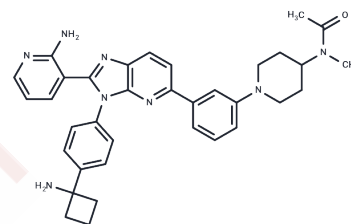


## Vevorisertib

## Chemical Properties

CAS No. :	1416775-46-6
Formula:	C35H38N8O
Molecular Weight:	586.73
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	Vevorisertib (ARQ 751) is an orally active, potent and selective pan-AKT serine/threonine kinase inhibitor with inhibitory effects on AKT1/AKT2/AKT3 and is commonly used in the study of solid tumors with PIK3CA/AKT/PTEN mutations, showing dose-dependent antitumor activity.
Targets(IC50)	Akt,Serine Protease
In vitro	Vevorisertib binds to wild-type AKT1 and mutant AKT1-E17K with Kd of 1.2 nM and 8.6 nM, respectively, and inhibits pAKT(S473) in 293T cells transiently transfected with AKT1-E17K.[4]
In vivo	Vevorisertib (10-120 mg/kg) has dose-dependent antitumor activity in AKT1-E17K mutant endometrial patient xenograft (PDX) models.[4]

## Solubility Information

Solubility	DMSO: 4 mg/mL (6.82 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	1.7044 mL	8.5218 mL	17.0436 mL
5 mM	0.3409 mL	1.7044 mL	3.4087 mL
10 mM	0.1704 mL	0.8522 mL	1.7044 mL
50 mM	0.0341 mL	0.1704 mL	0.3409 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

Vevorisertib (ARQ 751) (4440-001) as a Single Agent or in Combination With Other Anti-Cancer Agents, in Solid Tumors With PIK3CA / AKT / PTEN Mutations.

ArQule Presents Recent Data on ARQ 751 at the 2019 AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics.

Abstract A034: The use of biomarkers and ctDNA in a phase 1 trial of ARQ 751

Abstract 374: In vitro and in vivo anti-tumor activity of ARQ 751, a potent and selective AKT inhibitor

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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