

ARQ 621

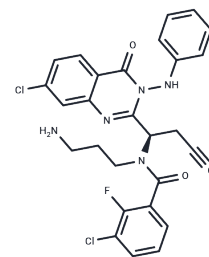
## Chemical Properties

CAS No. : 1095253-39-6

Formula: C<sub>28</sub>H<sub>24</sub>Cl<sub>2</sub>FN<sub>5</sub>O<sub>2</sub>

Molecular Weight: 552.43

Storage: Store at low temperature, Keep away from direct sunlight  
 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	ARQ 621 is an allosteric, and selective Eg5 mitotic motor protein inhibitor. Phase 1.
Targets(IC <sub>50</sub> )	Kinesin
In vitro	ARQ 621 demonstrates anti-tumor activity against a wide range of human cancer cell lines in vitro, including colon, lung, endometrial, bladder, and hematologic cancer cell lines, with significantly less cytotoxicity against hematopoietic cells. [1]
In vivo	ARQ 621, as a novel clinical stage drug candidate, inhibits a number of xenografts grown in athymic mice, such as pancreatic, breast, prostate, and ovarian carcinomas with no hematological changes. Furthermore, for ARQ 621, there is no evidence of bone marrow toxicity in pre-clinical mouse efficacy models or safety studies in rats and dogs. [1]

## Solubility Information

Solubility	Ethanol: 93 mg/mL (168.35 mM), Sonication is recommended. DMSO: 93 mg/mL (168.35 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.8102 mL	9.0509 mL	18.1018 mL
5 mM	0.362 mL	1.8102 mL	3.6204 mL
10 mM	0.181 mL	0.9051 mL	1.8102 mL
50 mM	0.0362 mL	0.181 mL	0.362 mL

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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

Rosen L, et al. Annual Meeting of ASCO: abstract 3076

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