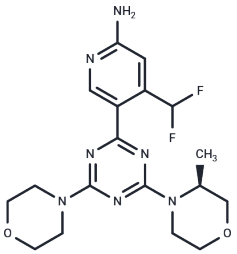
# Data Sheet (Cat.No.T16567)

PQR530

## Chemical Properties



CAS No. : 1927857-61-1

Formula: C18H23F2N7O2

Molecular Weight: 407.42

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 | PQR530 is a highly potent dual pan-PI3K/mTORC1/2 inhibitor. PQR530 inhibited protein kinase B (PKB, pSer473) and ribosomal protein S6 (pS6, pSer235/236) phosphorylation with IC50 values of 0.07 μM. It also showing antitumor activity. |
| Targets(IC50) | mTOR,PI3K |
| In vitro | PQR-530 inhibits all PI3K isoforms and mTOR complexes C1/2 potently and selectively. PQR-530 inhibits protein kinase B (PKB, pSer473) and ribosomal protein S6 (pS6, pSer235/236) phosphorylation (IC50: 0.07 μM in A2058 melanoma cells). PQR-530 displays inhibitory activity against the growth of 44 cancer cell lines (mean GI50: 426 nM)[1]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 25 mg/mL (61.36 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.4545 mL | 12.2723 mL | 24.5447 mL |
| 5 mM | 0.4909 mL | 2.4545 mL | 4.9089 mL |
| 10 mM | 0.2454 mL | 1.2272 mL | 2.4545 mL |
| 50 mM | 0.0491 mL | 0.2454 mL | 0.4909 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

Denise Rageot, et al. Abstract 140: Discovery and biological evaluation of PQR530, a highly potent dual pan-PI3K/mTORC1/2 inhibitor. Cancer Res 2017;77(13 Suppl).



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