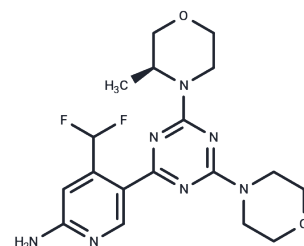


PQR530

Chemical Properties

CAS No. : 1927857-61-1
Formula: C₁₈H₂₃F₂N₇O₂
Molecular Weight: 407.42
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



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 IC ₅₀ values of 0.07 μ M. It also showing antitumor activity.
Targets(IC ₅₀)	PI3K,mTOR
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 (IC ₅₀ : 0.07 μ M in A2058 melanoma cells). PQR-530 displays inhibitory activity against the growth of 44 cancer cell lines (mean GI ₅₀ : 426 nM)[1].

Solubility Information

Solubility	DMSO: 25 mg/mL (61.36 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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