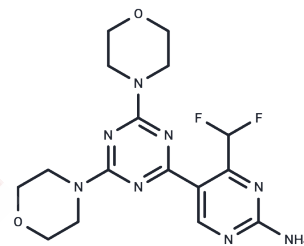


PQR514

Chemical Properties

CAS No. : 1927857-55-3
 Formula: C₁₆H₂₀F₂N₈O₂
 Molecular Weight: 394.38
 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	PQR514 is a potent PI3K inhibitor with anticancer activity and inhibits cancer cell proliferation.
Targets(IC50)	PI3K
In vivo	<p>METHODS: A single oral dose of PQR514 (10 mg/kg) was administered to male C57BL/6J mice at plasma concentrations of 4 and brain and thigh muscle concentrations were monitored over time.</p> <p>RESULTS: PQR514(4) reached maximum concentrations in plasma (3282ng/mL) after 1 hour and in brain and thigh muscles after 30 minutes (1023 and 1808 ng/g, respectively).</p> <p>METHODS: Using the OVCAR-3 xenograft model in BALB/c nude mice, the treatment group received PQR514 (6.3 mg/kg, p.o. QD 28 days) starting on day 17 to evaluate the in vivo anti-proliferative effect of PQR514.</p> <p>RESULTS: PQR514 treatment resulted in significant anti-tumor activity, with PQR514 significantly inhibiting tumor growth compared to control mice. [1]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5356 mL	12.6781 mL	25.3563 mL
5 mM	0.5071 mL	2.5356 mL	5.0713 mL
10 mM	0.2536 mL	1.2678 mL	2.5356 mL
50 mM	0.0507 mL	0.2536 mL	0.5071 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

Borsari C, et al. Preclinical Development of PQR514, a Highly Potent PI3K Inhibitor Bearing a Difluoromethyl-Pyrimidine Moiety. ACS Med Chem Lett. 2019 Sep 3;10(10):1473-1479.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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