

Rasarfin

Chemical Properties

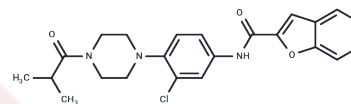
CAS No. : 674359-73-0

Formula: C₂₃H₂₄ClN₃O₃

Molecular Weight: 425.91

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	Rasarfin inhibits Ras and ARF6.
Targets(IC50)	Ras
In vitro	Rasarfin resulted in a dose-dependent reduction in cell growth in MDA-MB-231 cells. After 48 and 72h of treatment, Rasarfin modestly decreased in a dose-dependent manner the metabolic activity of cancer cells compared to cells treated with DMSO. However, compared to Doxorubicin which potently killed cells, cell viability was not affected by Rasarfin treatment. Rasarfin inhibited proliferation of A549 lung cancer cells, which have increased Ras and EGFR activity ⁵² . Similar to the anti-proliferative effect on MDA-MB-231 cells, A549 cell growth inhibition at 5 and 10 μM of Rasarfin, more important cell viability effects of Rasarfin on A549 cells than MDA-MB-231 cells at 10 μM of Rasarfin treatment ^[1] .

Solubility Information

Solubility	DMSO: 60 mg/mL (140.87 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	2.3479 mL	11.7396 mL	23.4791 mL
5 mM	0.4696 mL	2.3479 mL	4.6958 mL
10 mM	0.2348 mL	1.174 mL	2.3479 mL
50 mM	0.047 mL	0.2348 mL	0.4696 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

Jenna Giubilaro, et al. Discovery of a dual Ras and ARF6 inhibitor from a GPCR endocytosis screen. Nat Commun. 2021 Aug 3;12(1):4688.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481