

RTC-5

Chemical Properties

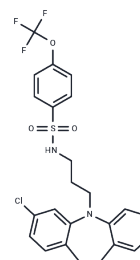
CAS No. : 1423077-49-9

Formula: C₂₄H₂₂ClF₃N₂O₃S

Molecular Weight: 510.96

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	RTC-5 (TRC-382) is a phenothiazine compound that has been specifically enhanced for its potent anti-cancer properties. It exhibits considerable effectiveness against an EGFR-driven cancer xenograft model. The mechanism behind its efficacy can be attributed to the simultaneous inhibition of PI3K-AKT and RAS-ERK signaling pathways.
Targets(IC ₅₀)	EGFR
In vitro	H1650 lung adenocarcinoma cell growth inhibited by RTC-5 (0-40 μM; 48 hours) (GI ₅₀ of 12.6 μM). RTC-5 (20-40 μM; 24 hours) negatively regulates PI3K-AKT and RAS-ERK pathways by decreasing phospho-AKT and phospho-ERK levels expression[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (97.86 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	1.9571 mL	9.7855 mL	19.571 mL
5 mM	0.3914 mL	1.9571 mL	3.9142 mL
10 mM	0.1957 mL	0.9786 mL	1.9571 mL
50 mM	0.0391 mL	0.1957 mL	0.3914 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

Kastrinsky DB, et al. Reengineered tricyclic anti-cancer agents. Bioorg Med Chem. 2015 Oct 1;23(19):6528-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481