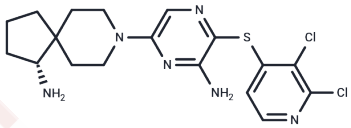
Data Sheet (Cat.No.T39221)

TargetMol

RMC-3943

Chemical Properties



CAS No. : 1801764-60-2

Formula: C18H22Cl2N6S

Molecular Weight: 425.38

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	RMC-3943 is a highly potent allosteric inhibitor of full-length SHP2, as demonstrated by its remarkable activity in a biochemical assay, with an IC50 value of 2.19 nM.
Targets(IC50)	Others,Phosphatase
In vitro	RMC-3943 effectively inhibits pERK in PC9 cells, demonstrating an inhibition concentration (IC50) of 35.5 nM[1]. Additionally, it induces a concentration-dependent suppression of SK-MEL-113 cell proliferation at concentrations ranging from 0-10 μM[1], as confirmed in a 7-day Cell Viability Assay on SK-MEL-113 cells, conclusively showing its capacity to inhibit cell proliferation[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3508 mL	11.7542 mL	23.5084 mL
5 mM	0.4702 mL	2.3508 mL	4.7017 mL
10 mM	0.2351 mL	1.1754 mL	2.3508 mL
50 mM	0.047 mL	0.2351 mL	0.4702 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

Efficacy of SHP2 phosphatase inhibition in cancers with nucleotide-cycling oncogenic RAS, RAS-GTP dependent oncogenic BRAF and NF1 loss. BioRxiv. 2021 Aug.

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