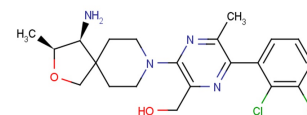


RMC-4550

Chemical Properties

CAS No.:	2172651-73-7
Formula:	C ₂₁ H ₂₆ Cl ₂ N ₄ O ₂
Molecular Weight:	437.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	RMC-4550 is an effective and allosteric inhibitor of SHP2 (IC ₅₀ : 0.583 nM).
Targets(IC ₅₀)	SHP2: 0.583 nM
In vitro	RMC-4550 stabilizes the auto-inhibited conformation of wild-type SHP2 enzyme, with a mode of inhibition similar to SHP099. RMC-4550 inhibits the activity of full-length wild-type SHP2 enzyme activated by a di-phosphotyrosine peptide but lacks activity against the free catalytic domain of SHP2 [1].

Solubility Information

Solubility	DMSO: 125 mg/mL (285.81 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.286 mL	11.432 mL	22.864 mL
5 mM	0.457 mL	2.286 mL	4.573 mL
10 mM	0.229 mL	1.143 mL	2.286 mL
50 mM	0.046 mL	0.229 mL	0.457 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Nichols RJ, et al. RAS nucleotide cycling underlies the SHP2 phosphatase dependence of mutant BRAF-, NF1- and RAS-driven cancers. Nat Cell Biol. 2018 Sep;20(9):1064-1073.

Inhibitors · Natural Compounds · Compound Libraries

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