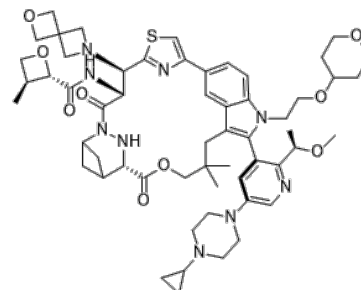


Product Name : RMC-5127
Cat. No. : PC-26762
CAS No. : 3082166-76-2
Molecular Formula : C₅₇H₇₅N₉O₉S
Molecular Weight : 1062.33
Target : Ras
Solubility : 10 mM in DMSO



CAS: 3082166-76-2

Biological Activity

RMC-5127 (RMC5127) is a potent, selective and orally bioavailable **RAS(ON) G12V** inhibitor with EC₅₀ of 2.1 nM, 26-fold selectivity over RAS WT.

RMC-5127 potently inhibits cellular pERK with IC₅₀ of 0.6 nM in Capan-1 cell line.

RMC-5127 suppressed RAS pathway activity, inhibits cell proliferation, and induced apoptosis in a panel of KRASG12V mutant human cancer cells in vitro but only caused submaximal inhibition in the panel of K/N/HRAS wildtype cancer cells.

RMC-5127 (3-100 mg/kg po qd) induced profound and durable anti-tumor activity in subcutaneous CDX and PDX models of KRASG12V mutant NSCLC, PDAC, and CRC in vivo.

References

Zhe Chen, et al. *Cancer Res* (2024) 84 (6_Supplement): 3340.

Patent WO2025080946 A2.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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