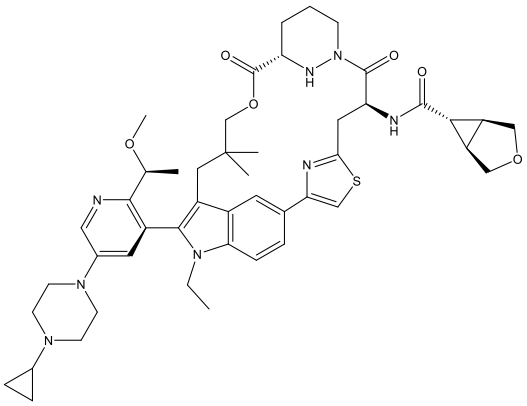
Catalog #10-3954
RMC-7977

CAS# 2765082-12-8

(1*R*,5*S*)-*N*-[(7*S*,13*S*)-20-[5-(4-cyclopropylpiperazin-1-yl)-2-[(1*S*)-1-methoxyethyl]pyridin-3-yl]-21-ethyl-17,17-dimethyl-8,14-dioxo-15-oxa-4-thia-9,21,27,28-tetrazapentacyclo[17.5.2.1^{2,5}.1^{9,13}.0^{22,26}]octacosa-1(25),2,5(28),19,22(26),23-hexaen-7-yl]-3-oxabicyclo[3.1.0]hexane-6-carboxamide

Lot # FBS4048



RMC-7977 is broad spectrum inhibitor of both mutant and wild-type KRAS, NRAS, and HRAS variants.[1] It binds with high affinity to cyclophilin A (K_D = 195 nM) creating a binary complex that has high affinity for the active state of KRAS (K_D = 85 nM for G12V). Active in *in vivo* xenograft models of NSCLC, CRC, and PDAC.[1,2,3] RMC-7977 was able to overcome resistance to the KRAS^{G12D} selective inhibitor MRTX1133.[1]

1) Holderfield *et al.* (2024), *Concurrent inhibition of oncogenic and wild-type RAS-GTP for cancer therapy*; Nature **629** 919
2) Wasko *et al.* (2024), *Tumour-selective activity of RAS-GTP inhibition in pancreatic cancer*; Nature **629** 927
3) Araujo *et al.* (2024), *Mechanisms of Response and Tolerance to Active RAS Inhibition in KRAS-Mutant Non-Small Cell Lung Cancer*; Cancer Discov. **14** 2183

PHYSICAL DATA

Molecular Weight:	865.11
Molecular Formula:	$C_{47}H_{60}N_8O_6S$
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (>75 mg/mL)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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