Product Datasheet

RM-046

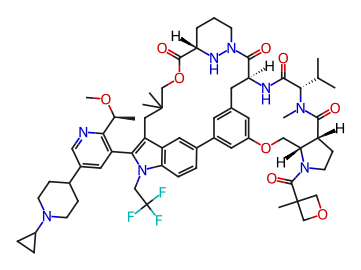
Catalog No. **BP-08811** · CAS **3058972-05-4** · Form **free base** · Physical state **solid** · Version **1.0** · Revision **2026-11-13**

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Target	Research area
Ras; ERK; Cyclophilin	**Cancer**

Molecular formula	$C_{62}H_{79}F_3N_8O_9$
Molecular weight	**1137.3550**

STRUCTURE



DESCRIPTION

RM-046 is an orally active, selective ternary complex inhibitor of KRAS Q61H (active form). RM-046 forms a ternary complex with cyclophilin A, binds to active KRAS Q61H in a non-covalent manner, blocks effector binding via steric hindrance and inhibits downstream signal transduction. RM-046 inhibits ERK phosphorylation and cancer cell proliferation, and induces sustained RAS pathway signal inhibition, anti-tumor activity and tumor regression in preclinical xenograft models. RM-046 can be used for the research of KRAS Q61H mutant cancers .

BIOLOGICAL ACTIVITY

Oral administration of RM-041 enables profound, sustained inhibition of RAS pathway activity in human KRASQ61H xenograft tumor models (including NSCLC and PDAC), and induces in vivo tumor regression at tolerated doses

REFERENCES

[1]. Yang Y C, Thompson S, Montgomery D, et al. RM-046, a first-in-class, mutant-selective, and oral KRASQ61H (ON) inhibitor that drives tumor regression in preclinical models and validates KRASQ61H as a therapeutic target[J]. Cancer Research, 2023, 83(7_Supplement): 1598-1598.