Product Data Sheet

Product Name: RM-046
Cat. No.: GC79240

Chemical Properties

Cas. No.	3058972-05-4		
Formula	$C_{62}H_{79}F_3N_8O_9$	M.Wt	1137.33
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

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 [1].

In Vivo, 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[1].

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.

Caution: Product has not been fully validated for medical applications. For research use only.
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