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## Product Data Sheet

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Product Name: RM-018  
Cat. No.: GC63562

### Chemical Properties

Cas. No. 2641993-55-5

Formula  $C_{56}H_{72}N_8O_8$  M.Wt 985.22

Solubility Storage Store at  $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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-018 is a potent, functionally distinct tricomplex KRASG12C active-state inhibitor. RM-018 retains the ability to bind and inhibit KRASG12C/Y96D and could overcome resistance. RM-018 binds specifically to the GTP-bound, active ["RAS(ON)"] state of KRASG12C[1].

RM-018 is a "tricomplex" KRAS inhibitor, which exploits a highly abundant chaperone protein, cyclophilin A, to bind and inhibit KRASG12C[1]. RM-018 (0.01-1000 nM; 72 hours) has IC50s of 1.4-3.5 nM (KRASG12C) and 2.8-7.3 nM (KRASG12C/Y96D) in NCI-H358, MIA PaCa-2, Ba/F3, and MGH1138-1 cells[1]. RM-018 (0-100 nM; 4 hours) inhibits the expression of KRAS, pERK, and pRSK protein[1].

[1]. Tanaka N, et.al. Clinical Acquired Resistance to KRASG12C Inhibition through a Novel KRAS Switch-II Pocket Mutation and Polyclonal Alterations Converging on RAS-MAPK Reactivation. Cancer Discov. 2021 Aug;11(8):1913-1922.

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

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