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## Product Data Sheet

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Product Name: RMC-6272

Cat. No.: GC63894

### Chemical Properties

Cas. No. 2382769-46-0

Formula C<sub>95</sub>H<sub>141</sub>N<sub>6</sub>O<sub>27</sub>S

M.Wt

1850.22

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

RMC-6272 (RM-006) is a bi-steric mTORC1-selective inhibitor. RMC-6272 exhibits potent and selective (> 10-fold) inhibition of mTORC1 over mTORC2. RMC-6272 shows improved inhibition of mTORC1 in comparison to Rapamycin, and induces more cell death in TSC2 null tumors[1].

RMC-6272 shows more effective growth inhibition in multiple TSC1 or TSC2 mutant tumor cell lines compared to Rapamycin. RMC-6272 causes a more profound growth inhibition in the TSC1 or TSC2 mutant cells than the wild type cells. RMC-6272 at ~1 nM shows near complete inhibition of p4E-BP1T37/46, while inhibition of pS6S240/244 levels is similar for Rapamycin and RM compounds[1].

RMC-6272 markedly reduces kidney tumor burden in Tsc2+/- A/J mice after four weeks of treatment. Tumor regrowth is assessed two months after treatment cessation, tumor burden is significantly reduced in the RMC-6272 group as compared to the Rapamycin and MLN0128 groups[1].

[1]. Heng Du, et al. Bi-steric mTORC1-selective inhibitors demonstrate improved potency and efficacy in tumors with mTORC1 hyperactivation [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2021; 2021 Apr 10-15 and

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

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May 17-21. Philadelphia (PA): AACR; Cancer Res 2021;81(13\_Suppl):Abstract nr 1026.

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