

Product Datasheet

RMC-0331

Catalog No. **BP-02024** · CAS **2488788-52-7** · Form **free base** · Physical state **solid** · Color **White to yellow** · Version **1.0** · Revision **2026-09-11**

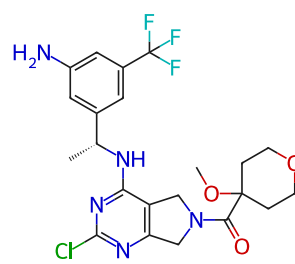
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Target SHP2; SOS1; Ras	Research area Cancer
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Molecular formula **C₂₂H₂₅ClF₃N₅O₃**

Molecular weight **499.9140**

STRUCTURE



DESCRIPTION

RMC-0331 is a potent, selective and orally bioavailable SOS1 inhibitor. RMC-0331 is an in vivo tool compound that blocks RAS activation via disruption of the RAS-SOS1 interaction.

BIOLOGICAL ACTIVITY

In Vitro

RMC-0331 has an IC₅₀ of 71 nM measuring by the rate of GDP/GTP exchange in vitro.

In Vivo

RMC-0331 (100-250 mg/kg; p.o.; qd; immunocompetent mice) shows single agent anti-tumor activity in SHP2-mutant models.

SOLUBILITY

Soluble in DMSO 125 mg/mL

REFERENCES

[1]. Andreas Buckl, et al. Discovery of a Potent, Selective and Orally Bioavailable SOS1 Inhibitor, RMC-0331 (RM-023), an in vivo Tool Compound that Blocks RAS Activation via Disruption of the RAS-SOS1 Interaction.

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