

Product Datasheet

MRTX0902

Catalog No. **BP-02360** · CAS **2654743-22-1** · Form **free base** · Physical state **other** · Color **Light yellow to green yellow** · Version **1.0** · Revision **2026-09-10**

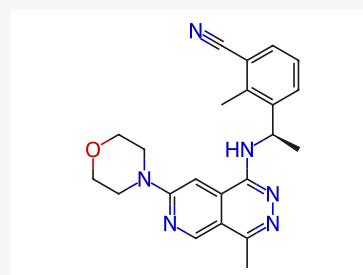
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Target SOS1; Ras	Research area Neurological Disease; Cancer
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Molecular formula **C₂₂H₂₄N₆O**

Molecular weight **388.4656**

STRUCTURE



DESCRIPTION

MRTX0902 is an effective SOS1 inhibitor with an IC₅₀ of 46 nM.

BIOLOGICAL ACTIVITY

MRTX0902 is an oral brain penetrating SOS1:KRAS protein-protein interaction inhibitor with an IC₅₀ of 46 nM. MRTX0902 displays high selectivity on SOS1 (K_i=2 nM) over SOS2 and EGFR (both K_i values >10,000 nM), MRTX0902 inhibits MKN1 cells with an IC₅₀ value of 29 nM. MRTX0902 (25, 50 mg/kg; p.o.; twice daily; 25 d) shows anti-tumor effect in mouse model and results tumor regression.

SOLUBILITY

Soluble in DMSO

In vitro DMSO 12.5 mg/mL

REFERENCES

[1]. Ketcham JM, et al. Design and Discovery of MRTX0902, a Potent, Selective, Brain-Penetrant, and Orally Bioavailable Inhibitor of the SOS1:KRAS Protein-Protein Interaction. J Med Chem. 2022 Jul 28;65(14):9678-9690.