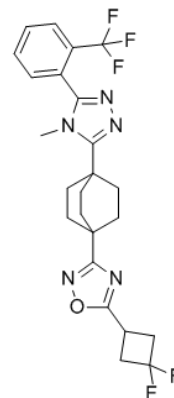


Product Name : MK-4101
Cat. No. : PC-42045
CAS No. : 935273-79-3
Molecular Formula : C₂₄H₂₄F₅N₅O
Molecular Weight : 493.4723
Target : Smoothened (Smo)
Solubility : 10 mM in DMSO



Biological Activity

MK-4101 is a potent, orally bioavailable and brain penetrating **Hedgehog pathway (Hh)** inhibitor that inhibits **Smoothened (Smo)** with IC₅₀ of 1.1 uM.

MK-4101 inhibits Hh signaling in a reporter gene assay in cancer cells with IC₅₀ of 1-1.5 uM, also inhibited the proliferation of medulloblastoma cells derived from neonatally irradiated Ptch1^{-/+} mice in vitro with IC₅₀ of 0.3 uM.

MK-4101 demonstrate a robust antitumor activity against Hh-driven tumors in vivo, shows potentiation for the treatment of medulloblastoma and BCC.

References

Filocamo G, et al. *Mol Cancer Ther.* 2016 Jun;15(6):1177-89.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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