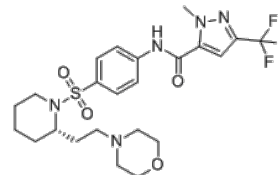


Product Name : ERDRP-0519
Cat. No. : PC-72591
CAS No. : 1374006-96-8
Molecular Formula : C₂₃H₃₀F₃N₅O₄S
Molecular Weight : 529.579
Target : Other Viruses
Solubility : 100 mM in DMSO (52.9 mg/mL)



Biological Activity

ERDRP-0519 (ERDRP0519) is a specific, orally bioavailable small-molecule viral polymerase inhibitor (**CDV/MeV polymerase** IC₅₀=0.4/0.6 uM), shows pan-morbillivirus inhibitory activity.

ERDRP-0519 displayed vitro efficacy against a panel of MeV isolates representing seven distinct, currently endemic genotypes with EC₅₀ values of 0.07-0.3 uM.

ERDRP-0519 potently inhibited morbillivirus-derived polymerase complexes, does not inhibit a distant member of the paramyxovirus family, respiratory syncytial virus (RSV).

ERDRP-0519 demonstrated oral efficacy against pathogenic CDV in ferrets.

ERDRP-0519 inhibits all phosphodiester bond formation in both de novo initiation of RNA synthesis at the promoter and RNA elongation by a committed polymerase complex.

ERDRP-0519 prevents measles virus (MeV) infection in squirrel monkeys (*Saimiri sciureus*).

ERDRP-0519 inhibits feline coronavirus (FCoV) in vitro.

References

Stefanie A Krumm, et al. *Sci Transl Med*. 2014 Apr 16;6(232):232ra52.

Kevin Wittwer, et al. *Nat Commun*. 2021 Sep 2;12(1):5233.

Cox RM, et al. *PLoS Pathog*. 2021 Feb 23;17(2):e1009371.

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

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